Oil, Paint and Drug Reporter

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NOV 21 '49

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Nitrogen Production Prospects Favorable

World production of nitrogen for the 1949-50 crop year is expected by the Food and Agricultural Organization of the United Nations to reach 4,200,000 metric tons, of which 2,200,000 tons would be produced in Europe. The estimate was contained in a report on world conditions and prospects in food and agriculture, drawn up by FAO for consideration of delegates to the fifth session of FAO annual conference convening in Washington today (Monday).

The agency said that India expects to have in operation a new plant with a capacity of 70,000 tons of nitrogen, and Egypt a plant which will produce 31,000 tons. Some other underdeveloped countries are drawing up plans for new plants, it was added, without giving any further details.

Production of nitrogen throughout the world during the 1948-49 season was estimated at 3,354,000 metric tons, surpassing the prewar (1936-38) level by more than 45 percent. The biggest gain over 1947-48 was in Europe, which on the whole has recovered its prewar level of production, it was stated, although Germany's output is still low.

The United States and Canada, where a tremendous expansion in nitrogen production for ordnance purposes took place during the war, are now turning out chiefly ammonium nitrate, anhydrous ammonia, and nitrogen solutions for agricultural purposes, it was noted. These newer types of fertilizer material have risen in the past ten years from 7 to 25 percent of the total supplies. The output of the older types, such as sulphate of ammonia, calcium nitrate, and nitrate of soda, has

—Continued on page 59

USP Sets Second Hearing on Pesticides

A second meeting of the USP revision committee with representatives of industry on the question of including DDT and certain insect repellents in the forthcoming issue of the United States Pharmacopoeia has been scheduled for November 22 at the Statler hotel, Washington.

The first hearing was held November 8 in Philadelphia at which representatives of the National Agricultural Chemicals Association, the National Association of Insecticide and Disinfectant Manufacturers and the Manufacturing Chemists Association urged the committee to delay action on the proposal until the affected industry had more time to study its meaning.

Antibiotics Rules Revised

Regulations were issued November 15 by the Federal Food and Drug Administration providing for the certification and marketing of penicillin-bacitracin ointment. The regulations were effective immediately. The new product must conform to all the requirements for penicillin ointment and must contain not less than 2,000 units of penicillin per gram and not less than 500 units of bacitracin per gram.

FDA also amended its regulations covering the certification of antibiotics to permit the addition of suitable and harmless preservatives to aqueous suspension of procaine penicillin for aqueous injection. The name and quantity of each preservative used must be included in the label.

Price Trend Shows Slight Gain

Slight increases in the divisions of oils and fats, essential oils and botanicals buoyed the markets for chemicals, oils and drugs last week and the overall index number rose 0.1 point, marking the first increase since mid-September. It was still 18.8 points below that of last year.

Feature of the oils and fats market was government purchasing of soybean oils, which tended to strengthen the position of other edible oils. Outside of the government activity, trading was restricted and prices were unsettled.

In the essential oils and aromatics field, peppermint and sandalwood oils were advanced and no reductions were reported. In addition, there were indications of probable advances in anethol, citral, citronella, geraniol and ionones. Demand for medicinal botanicals lagged but there was sufficient interest to cause increases in price for ergot, mandrake root and senega root. Jamaica ginger and papain were lowered.

There was no unusual activity in heavy chemicals. With free trading in tin on the London exchange, the market in the United States was unsettled and buyers of tin-based chemicals were holding off. Copper-based chemicals were advanced but this had been anticipated in view of the rise in the metal the week before. Manufacturers of 2,4-D acid were offering it to pesticide makers at a lower price.

In the market for protective coatings metallic lead weakened again and the oxides and silicate were moved down accordingly. Reductions also were noted for imported casein and orange shellac. The supply situation was improving in the market for coaltar chemicals. Most of the steel companies had resumed operations and were producing at a better rate than had been anticipated. Consumers of textile and leather chemicals continued to limit purchases for prompt delivery. Prices were steady, except for a reduction of egg albumen, which was easier under increased stocks.

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices for chemicals and related materials is currently as follows:—

Nov. 18, 1949	Nov. 11, 1949	Nov. 19, 1948
125.6	125.5	144.4

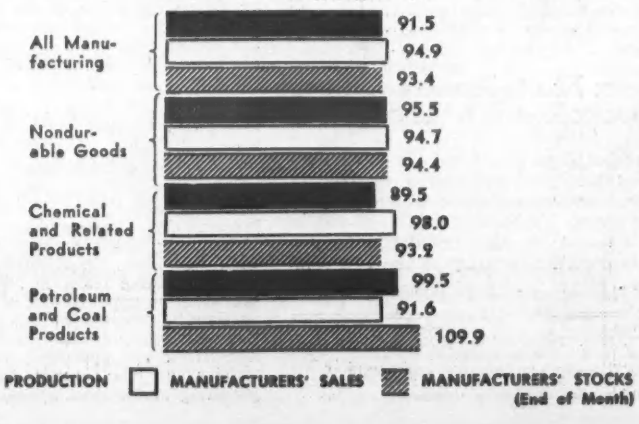
The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1949	1948	1947	1946	1941
January	142.0	150.4	150.9	135.3	107.3
February	140.4	147.2	151.9	135.4	110.3
March	137.6	146.2	154.9	135.2	111.9
April	133.6	146.2	152.3	134.9	115.5
May	131.2	146.7	146.1	135.1	118.2
June	128.7	147.3	143.9	135.4	121.9
July	128.1	145.9	142.5	137.7	125.5
August	128.9	144.4	140.4	136.6	128.2
September	129.1	144.3	141.9	137.0	130.4
October	126.6	143.7	146.1	143.1	133.2

Business in September, 1949

100=Same Month in 1948



Chemical Wage Rate Minimum For Government Work Argued

The Manufacturing Chemists' Association asked the Department of Labor November 16 not to establish new minimum wage rates for employees of the chemical industry engaged on government contract work at levels higher than 85 cents an hour in the south and 95 cents an hour in the north. Any levels determined to be the prevailing wage for the industry which would be higher than these minimums, the association warned, will have an inflationary effect upon the industry's wage structure, and will almost certainly make it impossible for smaller companies to bid for government business.

Representatives of organized labor, on the other hand, urged the department to wipe out the present differential between the north and south in minimum wages paid in the industry on government contract work and to set the minimum wage universally at $1.20 to $1.28 cents an hour. They argued that anything less than $1.20 an hour as the prevailing wage minimum would have a tendency to undermine union contracts.

The appeals were made at a hearing called by Secretary of Labor Maurice J. Tobin for the purpose of gathering testimony from industry and labor looking toward raising the prevailing minimum wage determination of 40 cents an hour in the south and 50 cents an hour in the north to something more nearly representative of the present minimums in the industry.

A Bureau of Labor Statistics survey of 786 chemical establishments, each employing more than eight production workers, shows that minimum hourly pay rates presently range from 45 cents in six reporting establishments to $1.70 in one reporting establishment. One-third of the firms between these two extremes paid minimum rates of 95 cents an hour or less.

Median Minimum Rate $1.03

MCA pointed out that the median minimum rate reported by the BLS survey for the industry as a whole is $1.03, while 50 percent of the establishments in the industry pay minimum wages of up to approximately $1.05.

"Establishment of a prevailing minimum at either of these rates, even with an appropriate geographical differential, would have a vital effect upon six classes of the chemical industry—cleaning and polishing preparations, sulphonated oils and assistants, insecticides and fungicides, intermediates and dyes, compressed and liquefied gases, and miscellaneous chemicals and chemical products.

"The least that could happen would be to exclude them from bidding on government contracts. They represent for the most part, that segment of industry called 'small business.' Yet they are an integral part of the chemical industry, and are not concentrated in any one geographical area.

"These six classifications comprise over half of the establishments and about one-fourth of the workers covered by the BLS survey. Determination of minimum rates on the basis of 50 percent of the minimums reported by the entire chemical industry ($1.05) would work irreparable harm on these industry classifications, would disrupt existing wage schedules and eliminate many small business organizations from participating in government purchases.

Consequences of Change

"These consequences are manifested by the following illustrations:—

"Fifty-five percent of the workers in the cleaning and polishing preparations industry are concentrated in the Middle Atlantic region. A minimum wage of $1.05 would exclude from government contract participation 83 percent of the establishments employing 88 percent of the workers in this industry.

"Sixty-five percent of the workers in the sulphonated oils and assistants industry are concentrated in the Middle Atlantic region. A minimum wage of $1.05 would exclude 72 percent of the establishments employing 63 percent of the workers from such participation.

"In the insecticide and fungicide industry a total of 67 percent of the workers are concentrated in areas not now subject to a regional differential. A minimum wage of $1.05 would exclude 82 percent of the establishments employing 79 percent of the workers from bidding on government contracts.

"In the intermediates and dyes industry, with 90 percent of the workers concentrated in areas not now subject to a regional differential, a minimum wage of $1.05 would exclude 65 percent of the establishments employing 43 percent of the workers from government contracts.

"Even in the compressed and liquefied gas industry, with a minimum rate of $1.15 per

—Continued on page 72

Methyl Isobutyl Ketone Export Rules Tightened

Methyl isobutyl ketone was added to the list of products requiring validated licenses for export to any destination by the Office of International Trade on November 18. Heretofore, although the product was on the positive list validated licenses were required only for shipments to group R destinations.

The agency also announced the following additions to the positive list, effective November 18, with the requirement that validated licenses be obtained for export to either group O or group R destinations:—Molybdic acid; furfuryl alcohol (furyl carinol n.e.s.); ammonium molybdate; calcium molybdate, and molybdenum salts and compounds, n.e.s.

Sulphonated castor oil, which is included in the schedule B classification of leather dressings, oils, polishes and stains, was removed from the positive list.

Chemical Code Changes

The following changes in processing codes for certain chemicals were announced:—

Naphthenic acid, from SALT 67 to RESN; chlorifine (chlorafin), from SALT 65 to ORGN 67; chlorinated paraffin, from SALT 65 to ORGN 67; tributyl phosphate, from SALT 67 to ORGN 67; antimony oxides (tri-, tetra-, penta-), from PLAT to PLAT 71; antimony sulphides, from PLAT to PLAT 71; other antimony salts and compounds, except antimony potassium tartrate, from PLAT to PLAT 71; lampblack, from PLAT 68 to PLAT; carbon black, contact (including channel), from PLAT to PLAT 72; carbon black, furnace, from PLAT to PLAT 72; antifouling paints, from PLAT 68 to PLAT; dynamite, from PLAT 70 to RESN; nitroglycerin explosives, except dynamite, from PLAT 70 to RESN, and, explosives and explosive stabilizers, n.e.s., from PLAT 70 to RESN.

Spain Revises Special Export and Import Rates

The government of Spain has issued a revised list of special exchange rates applying to imports and exports of specified commodities. These rates apply in place of the official rate of 10.95 pesetas to the dollar. Among the special rates are the following, in pesetas to the dollar:

Exports

Potassium chloride, 13.14; iron pyrites, 17.52; baryte, iron oxide and botanical drugs and herbs, 19.71; fluorspar, saffron, oil of bitter orange, essential oils, pharmaceutical specialties, locustbean gum and perfumers, 21.90; wolfram and paprika, 24.09; ultramarine blue, 25.185, and tartaric acid, Rochelle salt and ergot of rye, 26.28.

Imports

Pitch, creosote, bauxite, alumina, kryolite, copra, palm kernels and babassu, 18.912; paraffin, fertilizers, tanning extracts, aluminum, nickel, magnesium, manganese, silicon, cobalt and palm oil, 22,065; tin and asbestos, 23.641; coaltar, asphalt, lubricants, carbon black, botanical drugs, biological preparations, linseed oil, flaxseed, stearin, quinine salts, glycerin, sulphur, abrasives, rubber accelerators and mica, 25.217; spices, petrolatum, dyestuffs, pharmaceutical products, penicillin, sulphamides, transformer oil, destrin and lanolin, 28,369; perfume essences, potato starch, glucose and paints, 34.521, and thermoplastic materials, 39,401.

Mead Takes FTC Post

Former Senator James M. Mead took the oath of office as the newest Commissioner of the Federal Trade Commission November 16. The oath was administered by Supreme Court Justice Robert H. Jackson. Mr. Mead, whose term runs until September, 1955, succeeded Garland S. Ferguson, resigned.

Pesticides Labeling Regulations Interpretation Issued by USDA

Interpretation number eighteen under the Federal insecticide, fungicide and rodenticide act, which covers the requirements as to warning, caution, and antidote statements that must appear on the labels on economic poisons, was issued November 18 by the insecticide division of the Department of Agriculture.

Four general categories of toxicity of economic poisons are recognized. The first is the highly toxic; the second is the class immediately below the highly toxic and, in general, includes formulations having toxicities down to one-tenth of those of the highly toxic class; the third embraces products having hazards below class two but to a degree which still requires some cautions and usually includes toxicities down to about one-tenth of those in class two, and the fourth class is comparatively free from danger.

Different labeling requirements apply to each of the four classes:—

Highly toxic products are required to be labeled with the "skull and crossbones," the word "poison" (in red) and an antidote statement. The antidote statement should include the sentence "call a physician immediately" and should be followed by the word "warning" and a statement of the major hazards of use with instructions for handling to reduce chances of injury.

Second Category Similar

Labels of products which fall in the second category should carry warning statements equivalent to those required for highly toxic materials, but they do not need to bear the "skull and crossbones," the word "poison," or an antidote statement.

Labels of products in the third category should carry the word "caution" and statements indicating the principal hazards of use and means of avoiding them. Use of the "skull and crossbones," the word "poison" and antidote statements are not necessary for these products.

No warning, caution or antidote state-

—Continued on page 56

Permanente Metals Now Kaiser Aluminum & Chem.

Permanente Metals Corporation, Oakland, Calif., has changed its corporate name to Kaiser Aluminum & Chemical Corporation, and its sales subsidiary, Permanente Products Company, has been renamed Kaiser Aluminum & Chemical Sales, Inc.

In addition to aluminum products, the company produces refractories at Moss Landing, Calif.; operates a seawater chemical plant for the production of magnesia, magnesium hydroxide and periclase at Moss Landing; produces lime, fertilizer products and open hearth furnace materials at Natividad, Calif., and processes soda ash for the commercial trade at Owens Lake, Calif.

Burtonite Names Greenwood Sales, Technical Director

The Burtonite Company, Nutley, N. J., has appointed Burton H. Greenwood to direct its sales and technical activities. The company will market animal, vegetable, resin and mineral glues, edible gelatin, vegetable colloids and "Burtonite," a series of protein-like, film forming adhesives.

Mr. Greenwood was formerly technical director and sales representative of the Thomas W. Dunn Company, New York. He had previously been owner and president of Greenwood & Co., which was sold to the Thomas W. Dunn Company in 1933. From 1919 to 1928 he was sales manager in the eastern and middle Atlantic states for the glue and gelatin departments of Swift & Co.

McAuliffe Gets Posts On Two RDB Committees

Designation of Maj. Gen. A. C. McAuliffe, chief of the chemical corps, Department of the Army, as an army member of the committees on chemical warfare and biological warfare of the research and development board, Department of Defense, was announced November 17 by the chairmen of the two committees.

Dr. W. Albert Noyes, jr., professor of chemistry, University of Rochester, Rochester, N. Y., is chairman of the committee on chemical warfare, and Dr. Ira L. Baldwin, vice-president of the University of Wisconsin, is chairman of the committee on biological warfare.

Gallagher Gets AEC Raw Materials Post

George G. Gallagher has been appointed assistant manager of the raw materials operations office of the Atomic Energy Commission, to replace Jesse C. Johnson, who recently became deputy manager.

Before joining the commission staff, Mr. Gallagher was general superintendent of the Compania Minera Venturosa, S. A., at Namiquipa, Mexico. During the war and until 1947 he was an engineer examiner in the mining section of the Reconstruction Finance Corporation. He has been active in mining engineering work since 1923.

Becker Oil Corp. Formed

The Becker Oil Corporation has been formed by George F. Becker to operate a vegetable oil crushing plant at Blue Point, Long Island, N. Y. The telephone number at the factory is Blue Point 1510, and in New York is Bowling Green 9-5070. Mr. Becker was formerly associated with Tunley & Co. for twenty-three years.

Who Has It?

Inquiries in the OPD editorial office seek sources from which the materials listed below can be obtained. Information will be gratefully received here:—

Acetone dicarboxylic acid.
Acetyl ortho-cresotinic acid.
Acyldiazine.
Benzalin.
Copper amino sulphate.
Potassium glycerate.

Obituaries

George M. Dunning

George M. Dunning, eastern director of sales of the Wyandotte Chemicals Corporation, Wyandotte, Mich., died November 16 on a railroad train while journeying to his home in Bronxville, N. Y. He was sixty-one years old.

George M. Dunning

Mr. Dunning had joined Edward Hill's Sons & Co. in 1904, and remained with it when it became the Michigan Alkali Company of New York. In 1940 he was placed in charge of general eastern sales for the company, and remained in that capacity when it was consolidated into the Wyandotte Chemicals Corporation in 1943.

Daniel B. DeLand

Daniel B. DeLand, assistant to the vice-president in charge of manufacturing of the American Can Company, died recently

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Detrex Elects Murray

Stockholders of the Detrex Corporation, Detroit, have elected Robert L. Murray to the board of directors. He is also executive vice-president and a director of the Hooker Electrochemical Company, Niagara Falls, N. Y., and a vice-president and director of Hooker-Detrex, Inc., a jointly owned subsidiary of the two companies.

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FDA Power Strengthened By Supreme Court Ruling

Powers of the Food and Drug Administration and the Federal Trade Commission in court and administrative actions relative to proceedings involving the public health were materially strengthened last week by an opinion handed down by the Supreme Court of the United States in a case concerning the powers of the Post Office in issuing fraud orders.

The opinion was given in conjunction with a decision in a procedure involving use of the mails by Joseph J. Pinkus, trading as American Health Aids Company, in the sale of an anti-fat treatment, nationally-advertised as "Dr. Phillips' Kelp-I-Dine Reducing Plan."

The Post Office sought to issue a fraud order against the company but was enjoined by the United States Court of Appeals for the Third Circuit. The supreme court sustained the appellate court and upheld the injunction.

Ever since the McAnnulty decision of forty years ago, the courts have followed the rule that, where there is a difference of opinion in the medical profession, a field is created wherein regulations cannot be enforced. FDA has insisted that such a rule was erroneous and that medical opinion is factual evidence as much as anything else. In swinging around to FDA viewpoint, the supreme court in the current decision, had this to say about the McAnnulty case:—

Findings Set Aside

"It is contended here, as both lower courts held, that the findings of the Postmaster-General must be set aside under the rule of the McAnnulty case. There, the Postmaster-General had forbidden use of the mails upon finding as a fact that petitioner was guilty of falsehood and fraud in obtaining money by representations based on claims that the 'mind of the human race is largely responsible for its ills . . and that the human race does possess the innate power, through proper exercise of the faculty of the brain and mind, to largely control and remedy the ills that humanity is heir to . . .'

"This court set aside the fraud order, pointing out that there were two widely held schools of opinion as to whether the mind could affect bodily diseases, and that scientific knowledge had not advanced to the point where an actual intent to deceive could be attributed to one who asserted either opinion. Thus there was 'no exact standard of absolute truth by which to prove the assertion false and a fraud.' At best, testimony either way was held to be no more than 'opinion' in a field where imperfect knowledge made proof 'as of an ordinary fact' impossible.

McAnnulty Holding Limited

"Respondent appears to argue that the McAnnulty case bars a finding of fraud whenever there is the least conflict of opinion as to curative effects of a remedy. The contention seems to be that even the testimony of the most experienced medical experts can never rise above a mere 'opinion' unless the expert has made actual tests of the drug to determine its effects in relation to the particular representations alleged to be false. The McAnnulty holding did not go so far."

"We do not understand or accept it as prescribing an inexorable rule that auto-

—Continued on page 77

Sesame 1949-50 Output In Nicaragua Off 28%

Nicaraguan sesame production during the 1949-50 crop year is forecast at about 5,000 short tons, a decrease of 28 percent from the record 16,700-ton harvest of 1948-49 and the smallest crop since 1945-46, according to the American Embassy, Managua. The sharp decline from 69,000 acres planted a year ago to only 17,300 this year is attributed almost entirely to the break in world prices of vegetable oils in the early months of 1949 and to an active campaign of the National Bank of Nicaragua, which customarily finances the greatest part of the plantings, in favor of increased plantings of other crops, principally cotton.

Foster Heads OIT Division

The appointment of James C. Foster as director of the commodities division of the Office of International Trade was announced recently by OIT Director R. C. Miller. Mr. Foster succeeds John W. Evans, who recently accepted a position with the State Department.

At the same time, Mr. Miller also announced the appointment of E. Paul Hawk as deputy director of the OIT commodities division. In addition to his new duties, Mr. Hawk will continue to direct the activities of the commodities division's planning and export operations branches.

ECA Announces Additional Procurement Authorizations

Among the procurement authorizations issued to Marshall plan countries during the period 14 through November 18 by the Economic Cooperation Administration were the following:—

To Austria—$40,000 for tung oil from the United States.

To Belgium-Luxembourg—1,600,000 for chemicals except fertilizers, synthetic rubber and toilet preparations, $500,000 for medicinal and pharmaceutical preparations, from the United States; $1,500,000 for nonferrous ores and concentrates from Canada; $1,154,000 for nonferrous ores and concentrates and $3,000,000 for petroleum from Latin America.

To Greece—A decrease of $600,000 for petroleum from Latin America, and a decrease of $57,000 for medicinal preparations from the United States.

To Iceland—A decrease of $76,000 for soybean oil from the United States.

To Netherlands—Decreases of $140,000 for gum rosin, $94,000 for gum turpentine, $74,000 for wood rosin, $35,000 for naval stores other than rosin and turpentine, $68,000 for alcohol, $57,000 for industrial alcohol, $47,000 for essential oils, and $44,000 for vegetable tallow and waxes from the United States.

To Sweden—$810,000 for copper from the United States and $110,000 for aluminum from Canada.

To Trizone Germany—$1,500,000 for soybean oil from the United States.

To United Kingdom—$9,000,000 for petroleum, $5,780,000 for chemicals excluding fertilizers, synthetic rubber and toilet preparations, $666,000 for nonmetallic minerals, $900,000 for nonferrous ores and concentrates, $170,000 for hides and skins, all from the United States; $17,000,000 for petroleum and $105,000 for hides and skins from Latin America; $6,500,000 for petroleum from the Middle East; $790,000 for chemicals excluding fertilizers, synthetic rubber and toilet preparations, $4,665,000 for aluminum, $1,462,000 for nonmetallic minerals, $740,000 for nonferrous ores and concentrates, $550,000 for hides and skins and $25,000 for industrial chemicals other than alcohol, all from Canada.

SOCMA to Hear Wilson At December 7 Meeting

Thomas B. Wilson, chairman of the board of the United States Plastic Products Corporation, will be the featured speaker at the annual dinner meeting of the Synthetic Organic Chemical Manufacturers Association, to be held at the Waldorf-Astoria hotel, New York, on December 7. Mr. Wilson's address will be entitled "Chemistry—The Industry with the Biggest Tomorrow."

The board of directors of the association will convene at 4 p.m., and the annual business meeting will be held at 5 p.m. On the agenda for the meeting are annual reports of officers and committees and election of officers and board members for the ensuing year. A reception and social hour will precede the dinner.

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating — not by telephone, please—with OPD office:—

Cocoa butter, Ikutaku, Japan (ET-5).
Corozo nuts, Ikutaku, Japan (ET-5).
Fats, tanners, Saint-Liguaire, France (ET-3).
Fertilizer plant catalogs, Patua, India (ET-2).
Oil, fish and whale, Saint-Liguaire, France (ET-3).
Oil seeds, including castor, cotton and rape seed, Ikutaku, Japan (ET-5).
Pumice, artificial, for soap making, Turin, Italy (ET-4).
Rosin, Ikutaku, Japan (ET-5).
Sodium fluroacetate, Jidda, Saudi Arabia (ET-1).
Tallow, edible and technical, Rotterdam, Holland (ET-6).

Foreign Market Lists

Lists of foreign outlets for chemicals and related materials and consumers goods, recently compiled by the Commercial Intelligence division of the United States Department of Commerce, include the following, which are available from the division at $1 a list for any one country:—

Boat and ship builders, repairers, chandlers—Panama, Union of South Africa.
Laundry and drycleaning industry—Colombia.
Oil (animal, fish, vegetable) importers, dealers, etc.—Peru.
Plastic materials manufacturers, molders, laminators, fabricators of plastic products—Australia.

Advanced by Sharp & Dohme

Dr. Richard H. Barnes has been appointed assistant director of research of Sharp & Dohme, Inc., Philadelphia. He will also continue to serve as director of biochemical research, and will be assisted by Dr. Jesse W. Huff, who has been named assistant director of biochemical research.

WPB Chemical Alumni Party Date Changed to Nov. 30

The WPB Chemical Bureau Alumni Association gathering (OPD 11/14/49), originally scheduled for December 1, has been changed to November 30. It will be held in the New England room of the Lexington hotel, New York. Frank Bennett of Publicker Alcohol & Chemical Sales Corporation, Brooklyn, N. Y., is in charge of details.

Catalin to Build New Liquid Resins Plant

The Catalin Corporation of America has awarded a contract to the Blaw-Knox Company, Pittsburgh, for the design and construction of a liquid resin plant at Calumet City, Ill. The plant, which will produce liquid phenolic, urea and melamine resins for use in waterproof adhesives and binders, is scheduled to be in operation in March, 1950.

Pennsalt Appoints Krausche

Pennsylvania Salt Manufacturing Company, Philadelphia, has appointed Kenneth K. Krausche to the newly created post of technical advisor in its agricultural chemicals department. Mr. Krausche, who joined the company in 1945, was formerly district sales manager for the agricultural chemicals department's Chicago district.

Greenewalt Holds Size of Business Is Measure of Customer Approval

Bigness in business was defended by representatives of industry before the monopoly investigating committee of the house last week as of no danger or threat to American economy, as the committee continued its studies of trends towards concentration. The three defenders of bigness were Crawford H. Greenewalt, president of E. I. du Pont de Nemours & Co.; Earl Bunting, managing director of the National Association of Manufacturers, and Eric Johnston, president of the Motion Picture Association of America.

Each of the witnesses supported the antitrust laws and favored their vigorous enforcement, but they were opposed to antitrust law attacks on bigness in industry on the assumption that bigness denotes monopoly.

"A thought-pattern seems to be developing that holds bigness per se to be in violation of the antitrust laws—perhaps on the theory that bigness cannot be achieved without in some way damaging the public interest," Mr. Greenewalt told the committee.

"It is my belief that such considerations do not give sufficient weight to one basic economic fact—that it is the customer, and the customer alone, who casts the vote that determines how big any company should be.

"The regulations laid down by the consuming public are far more potent and far less flexible than any code of law, merely through the exercise of the natural forces of trade. To me, it seems a simple axiom that those companies who gain the approval of their customers through supplying satisfying goods and services will grow and prosper. Those who are less favored will grow and prosper to a lesser extent. It is the customer, in the last analysis, who is judge, jury, prosecutor and executioner."

Antitrust Law Penalties

Mr. Greenewalt conceded that the antitrust laws should be enforced and suggested that Congress might find it advisable to amend the antitrust law penalties for infractions of the laws because he believed that fines given to companies pleading nolo contendre were sometimes inadequate.

Warning against what he termed "arbitrary" government attempts to limit the size of business, Mr. Bunting said that the "theory that bigness and monopoly are necessarily synonymous does not stand up under close inspection. The fact that three or four large units account for the major portion of an industry's sales is not proof that competition is lacking. It is well known that three concerns account for the major portion of the sales of automobiles, but it is equally well-known that intense competition is characteristic of this industry."

Mr. Bunting joined with Mr. Greenewalt in arguing that the consumer is the final judge of the efficiency of business. He warned that if government is given the power to limit size, the decisions of one man or a small group of men would be substituted for the day-to-day decisions of millions of consumers.

Labor Is a Monopoly

"As for monopoly perils existing today," he added, "labor monopolies have developed as control has become centralized in the international unions. Labor monopoly is no mere catch-name. It is an all-too-palpable fact. Any national policy which is designed to deal with monopolies cannot possibly overlook so vital and major a factor in the nation's economy."

Mr. Johnston told the committee that while small business is the "heart and core" of the nation's economic system, anyone is "incredibly naive if he believes big business could be abolished without smashing the whole economy.

W. H. Aldridge Receives 1949 John Fritz Medal

Walter H. Aldridge, president of the Texas Gulf Sulphur Company, was presented with the John Fritz Medal for 1949 at a dinner held in his honor by the American Institute of Mining and Metallurgical Engineers on November 16. Mr. Aldridge was cited "as an engineer of mines and statesman of industry who by his rare technical and administrative skills has importantly augmented the mineral production of our country and Canada, and who by giving unselfishly of his wisdom and vision has guided his professional colleagues to higher achievements."

The medal is sponsored jointly by the American Society of Civil Engineers, the American Society of Mechanical Engineers, the American Institute of Electrical Engineers and the American Institute of Mining and Metallurgical Engineers.

Commercial Solvents Plans New Terre Haute BHC Plant

A new insecticide plant for the large scale production of "Lindane," the pure gamma isomer of benzene hexachloride, is to be constructed at Terre Haute, Ind., by the Commercial Solvents Corporation. The new facility will locate adjacent to the present benzene hexachloride plant and will utilize the latter's production of technical grade material for the extraction of the gamma isomer.

The present plant will be expanded to effect an estimated increase in production of 25 percent and to permit the continued marketing of the technical product. It is expected by the company that the expansion of the present benzene hexachloride plant will be completed within six months, and that large scale production of "Lindane" will be under way within a year.

Fisher Gamma Sales Agent

The Fisher Chemical Company, New York, has been appointed exclusive sales agent for Gamma Chemical Corporation, manufacturer of fine organic chemicals, Newark, N. J., it was announced last week.

Washington Talks It Over

By Ralph L. Cherry

The General Services Administration has opened a new service for business, that of issuing periodic reports on things that the government wants to buy or has in mind for future buying. What the agency is attempting to do is be the central point of all information on government procurement, with the exception of the military.

The new service is in keeping with a promise made to Congress by GSA Administrator Larson during the congressional investigation of Washington peddlers of influence. It is in response to congressional complaints that little business never knows what the government is doing in the way of procurement until it is too late. The supply report of the GSA will attempt to keep everybody informed.

Two reports already have been issued, the first being more or less an overall summary of its aims of becoming a central inquiry office and the second listing a number of items on which invitations have gone out for bids, showing the quantities desired the date of opening and the bid invitation number. In addition to supplying this information, the GSA also hopes to keep industry abreast of the new specifications of the government, changes in old specs, and changes in procurement procedures of which there are quite a few in the making.

Oleo Tax Repeal Prospects Bright

There are reports in the dairy industry that the butterbund isn't as het up over the question of repealing the "privilege" taxes on oleomargarin as it used to be. It all comes about as a result of the new farm price support law enacted last month by Congress and to become effective January 1.

One of the features of the bill is to provide mandatory supports under the prices of butter from 75 to 90 percent of parity. The butter farmers and their congressional lobbyists have always vehemently opposed the repeal of oleomargarin taxes because of the effect it might have, through competitive forces, in reducing prices of butter. But with the government compelled now to support prices, the butter farmers aren't worried because the government will have to take the rap.

The tax repeal bill is scheduled for one of the first considerations by the senate when Congress reconvenes in January. It has already passed the house by a thumping majority and there is no doubt that it can pass the senate if permitted to come to a vote. The butterbund doubtless will make a pretence of vigorously opposing the bill when it comes up in the senate but it doesn't appear now that there will be the knockdown drag-out fight previously expected.

FTC Admits Error

It isn't often that the opportunity comes along to relate of an instance where an agency of the government admits to making an error of decision and is taking steps to rectify it but such was the case last week.

About eighteen months ago the Federal Trade Commission issued a cease and de-

—Continued on page 34

Nat. Distillers Products Elects Porter Board Head

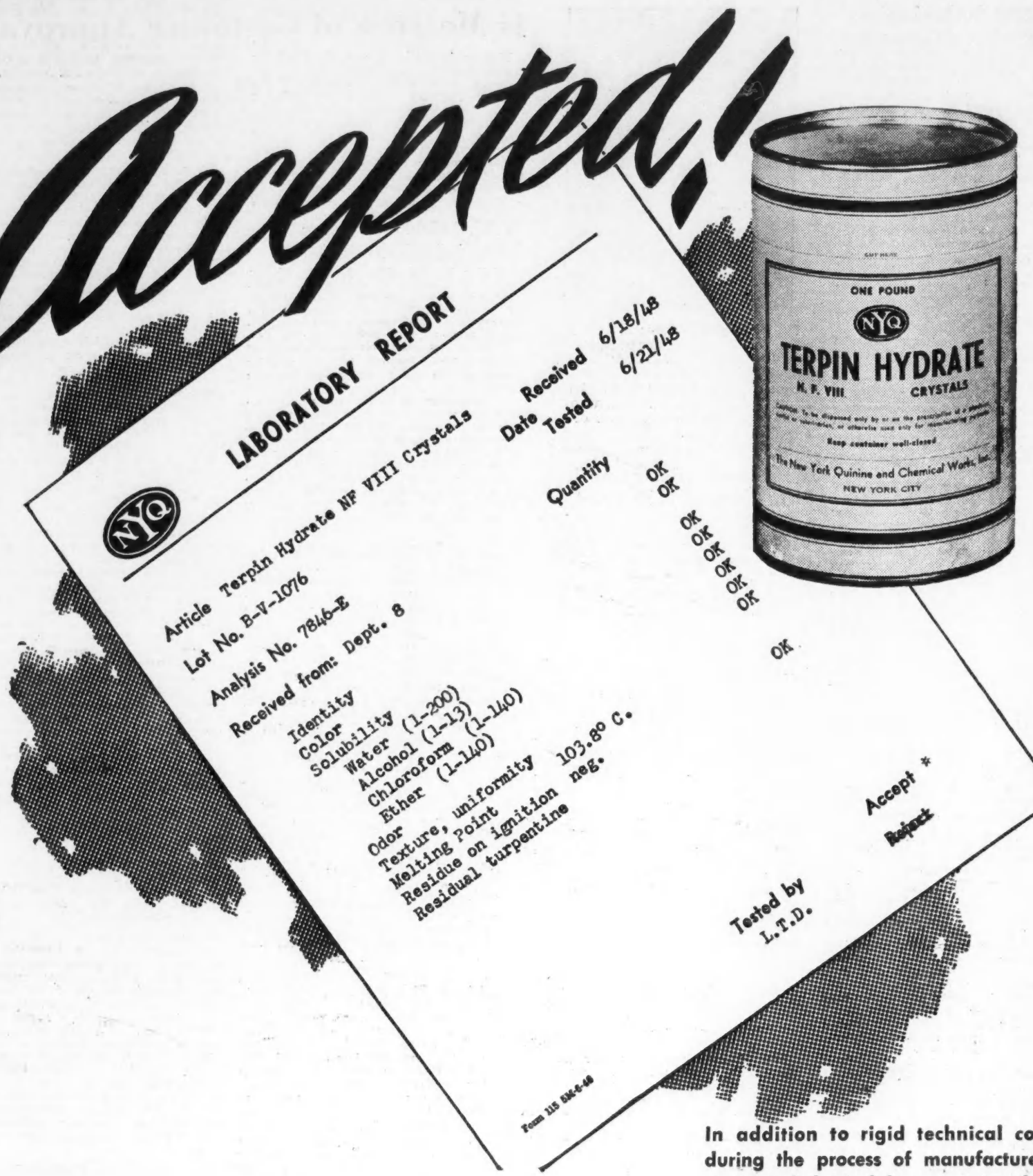
At a special meeting of the board of directors of National Distillers Products Corporation, Seton Porter was elected chairman of the board and John E. Bierwirth was elected president. Mr. Bierwirth, who has resigned as president of the New York Trust Company to accept this post, has been a director of National Distillers for many years.

Mr. Porter has served as president of National Distillers since the company was formed, and will continue to be active in the management of its affairs.

Eagle-Picher Names Taylor Paint, Varnish Sales Head

The Eagle-Picher Company, Cincinnati, has appointed Reuben C. Taylor, jr., general sales manager of its paint and varnish division, to fill the position left vacant by the recent death of Hugh O. Conley. Mr. Taylor, who was formerly vice-president in charge of sales for the Trailmobile Company, Cincinnati, will make his headquarters at the division's plant at Lyons, Ill.

Accepted!



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Association Meetings

Affiliated Drug Stores, New Yorker hotel, New York, March 19-21.

American Association for the Advancement of Science, New York, December 26-31.

American Association of Economic Entomologists, Tampa Terrace hotel, Tampa, Fla., December 13-16.

American Drug Manufacturers Association, Boca Raton Club, Boca Raton, Fla., March 27-30.

American Institute of Chemical Engineers, William Penn hotel, Pittsburgh, Pa., December 4-7.

American Management Association, national packaging exposition, Navy Pier, Chicago, April 24-27.

American Pharmaceutical Association, Traymore hotel, Atlantic City, N. J., April 30-May 5.

American Pharmaceutical Manufacturers Association, Waldorf-Astoria hotel, New York, November 28-30.

American Society for Testing Materials, William Penn hotel, Pittsburgh, February 27-March 2.

Associated Chain Drug Stores, New Yorker hotel, New York, September 24-27.

Canadian Gas Association, Manoir Richelieu hotel, Murray Bay, Quebec, June 19-24.

Chemical Market Research Association, Statler hotel, Detroit, February 2.

Compressed Gas Association, Waldorf-Astoria hotel, New York, January 23-24.

Drug, Chemical and Allied Trades Section, New York Board of Trade, annual dinner, Waldorf-Astoria hotel, New York, March 9; annual meeting, Shawnee Inn, Shawnee-on-Delaware, Pa., September 21-23.

Druggists Supply Corporation, Statler hotel, New York, March 6-10.

Exposition of Chemical Industries, Grand Central Palace, New York, November 28-December 3.

Flavoring Extract Manufacturers Association, Traymore hotel, Atlantic City, N. J., May 7-10.

Institute of Food Technologists, decennial conference, Edgewater Beach hotel, Chicago, May 21-25.

International Trade Section, New York Board of Trade, forum on devaluation, December 1.

Liquefied Petroleum Gas Association, Palmer House, Chicago, May 7-13.

Metal Powder Show, Book-Cadillac hotel, Detroit, Mich., April 25-26.

National Association of Chain Drug Stores, Hollywood Beach hotel, Hollywood, Fla., April 11-14.

National Association of Insecticide and Disinfectant Manufacturers, Mayflower hotel, Washington, December 5-6.

National Association of Manufacturers, Waldorf-Astoria hotel, New York, December 7-9.

National Confectioners Association, Waldorf-Astoria hotel, New York, June 4-9.

National Butane-Propane Association, Congress hotel, Chicago, September 18-20.

National Drug Trade Conference, Hay-Adams House, Washington, December 2.

Natural Gasoline Association of America, Texas hotel, Fort Worth, Tex., April 24-26.

National Petroleum Association, Cleveland hotel, Cleveland, April 12-14.

National Plastics Show, Navy Pier, Chicago, March 28-31.

National Wholesale Druggists Association, Waldorf-Astoria hotel, New York, September 16-21.

Proprietary Association, Greenbrier hotel, White Sulphur Springs, W. Va., May 25-27.

Salesmen's Association of the American Chemical Industry, Christmas party, Astor hotel, New York, December 14.

Society of Cosmetic Chemists, Savoy Plaza hotel, New York, December 8.

Society of Plastics Engineers, Carter hotel, Cleveland, Ohio, January 11-13.

Southern Paint and Varnish Production Club, Peabody hotel, Memphis, Tenn., March 8-10.

Synthetic Organic Chemical Manufacturers Association, annual meeting, Commodore hotel, December 7.

Textile Research Institute, Waldorf-Astoria hotel, New York, December 1-2.

Toilet Goods Association, scientific section, Waldorf-Astoria hotel, New York, December 7; annual meeting, Waldorf-Astoria hotel, New York, May 16-18.

United States Pharmacopoeia convention, Statler hotel, Washington, May 9-10.

British Chemical Makers Elect O'Brien President

The Association of British Chemical Manufacturers has elected L. P. O'Brien president. Vice-presidents of the association are Dr. F. H. Carr, R. Duncalf, Dr. E. V. Evans, Dr. P. C. C. Isherwood and C. F. Merriam; N. N. Holden and Lord McGowan are honorary vice-presidents, and J. Davidson Pratt is director and secretary.

Elected members of the association's council are:—Sir Harry Jephcott, chairman; Sir Frederick Bain, vice-chairman; C. E. Carey, honorary treasurer; A. D. Daysh; Dr. A. E. Everest; C. G. Hayman; G. E. Howard; W. F. Lutyens; L. G. Matthews; T. D. Morson; D. P. C Neave; F. G. Pentecost; S. W. Whiffen; G. F. Williams; K. H. Wilson and H. Yeoman. Co-opted members of the council are B. A. Bull, I. V. L. Fergusson, W. K. Hutchison and Derek Spence.

NFA Predicts Mixed Fertilizers Will Be More Available in 1950

The American farmer will have available 1,500,000 more tons of mixed fertilizer in 1950 than was used this year, Ray L. King of George Fertilizer Company, Valdosta, Ga., and chairman of the board of directors of the National Fertilizer Association, told the association's twenty-third fall meeting held in Atlanta, Ga., on November 14 and 16. More than 500 members and guests attended.

Estimates of the Food and Agriculture Organization, said Mr. King, indicate that world nitrogen production in 1949-50 will be about 255,000 tons less than the plannd consumption. Under these conditions, Mr. King said, there would probably be less pressure to export nitrogen from this country than existed last year.

"Our concern as an industry," he said, "should be that this additional 1,500,000

Ray L. King

tons of mixed fertilizer and the additional 100,000 tons or so of top-dressing nitrogen will be consumed in our own country for necessary economic crop production."

The speaker added that, on the whole, presently contemplated price supports for 1950 would certainly not portend any drop in fertilizer consumption. Mr. King called attention to the plans of the association to celebrate in 1950 the 100th anniversary of the compounding of mixed fertilizer in the United States.

Among notable visitors attending the gathering were the twelve members of a fertilizer manufacturers' productivity team from the United Kingdom. This team is visiting the United States under the sponsorship of the Economic Cooperation Administration and the Anglo-American Council on Productivity. The team is inspecting a number of fertilizer plants and discussing fertilizer problems with manufacturers in this country.

Changes in the Soil

F. W. Parker, assistant chief of the Department of Agriculture's bureau of plant industry, soils and agricultural engineering, told the meeting that soils may deteriorate or may be improved by changes in the soil that are hardly noticeable. Among the more important changes, he said, are those associated with the supply of available nutrients, soil reaction and content or organic matter.

"Recent data," Mr. Parker declared, "indicate the removal of nitrogen and potash by harvested crops exceeds the quantity returned in fertilizers and farm manures by 80 and 55 percent, respectively. The return is greatest in the eastern and southern states, even exceeding removal in many of them.

"Return in the Great Plains, on the other hand, approximates 10 percent of crop removal. The return of phosphorus exceeds crop removal by about 50 percent. Return exceeds removal by 400 percent or more in nine states and 200 percent in an additional twelve states, but is less than 20 percent in most of the states of the Great Plains."

Nitrogen Content Decline

Mr. Parker said that studies on changes in soil composition and comparisons of cultivated and virgin soils indicate major changes in soil fertility are taking place. The nitrogen and organic matter content of many soils of the corn belt and Great Plains has declined 25 to 50 percent with a substantial decline in inherent productivity. This decline is continuing. On the other hand, the mineral status of many soils in the south and east has been greatly improved by fertilization and liming. These improvements are being reflected in the results obtained in various State soil testing laboratories.

During the last ten to twelve years, Mr. Parker said, crop yields have steadily increased and are currently about 35 percent above the long-time prewar average. He added that this improvement has been concurrent with a great expansion in the use of fertilizers and lime, more attention to soil conservation and other improved practices.

European Fertilizer Needs

W. F. Watkins, chief of the fertilizer, seeds and pesticides branch of the ECA's food and agriculture division, reported that although northwest European countries use more commercial fertilizer than any other similar area, there is plenty of room to use more.

England and Norway are now using two and one-half to three times the prewar amount, he said, but several countries are still using very little. Mr. Watkins pointed out that there is a close relationship between farm prices and the use of fertilizer and that fertilizer prices need to be reduced through efficient production and distribution to obtain the maximum use.

A presentation of the case for wise use of the land and for increased application of fertilizer was given by W. R. Thompson, associate leader of extension agronomy, Mississippi State College. Stating that soil erosion is the south's worst problem, Thompson declared that good pastures will remedy not only this situation, but also will make the soil rich, produce nutritious feed and bring profits to the farmer.

You cannot wear out soil with livestock, said Mr. Thompson, who offered four points for a satisfactory pasture program: —A well-developed plan, adequate fertilization, good seeding and proper management, including proper insect control methods. An omission of any one of these points will lead to certain failure, the speaker declared.

The fertilizer salesman, Mr. Thompson stated, is truly a service man, for without fertilizer, the farmer of today would be hopelessly lost. Tribute was paid by the speaker to the North Carolina corn fertilization program, characterizing it as "the best agricultural project ever started in the south."

Banker's Views on Farm Loans

John L. Liles, jr., agricultural economist with the Federal Reserve Bank of Atlanta, declared the farmer of the future will come under much more careful scrutiny from bankers before loans are extended. Bankers, he said, will exercise closer supervision over their farm customers to see that the land is being wisely managed. More banks, he felt, will maintain field men or farm service departments.

The general problems facing farmers and bankers alike, Mr. Liles stated, are the following:—The volume of cash crops is still too high to be absorbed at present price levels, with the consequence that there must be readjustments in volume or prices, or else a greater tax burden will have to be placed on the general public; the land diverted from cash crop production, as well as other farm land, must be made to yield additional income, and, finally, the establishment of grass land crops, however desirable, requires the extension of larger loans than banks commonly have granted in the past.

British Fertilizer Problems

John H. Smith, leader of the British fertilizer manufacturing team, discussed the U. K. fertilizers problems and said that the basic and unalterable one is that England has no fertilizer raw materials of her own.

"Sulphur we have to import from your country," he said, "pyrites from Spain for acid manufacture, rock phosphate mostly from North Africa and potash from the continent, a large portion of which is imported from the Russian controlled zone. We are making exploratory borings now in England with a view to examining the possibility of producing our own potash, but whether it can ever be an economic commercial undertaking remains to be seen.

"At present, the British fertilizer industry is government controlled inasmuch as all raw materials are purchased by the government and often sold at prices below cost. The price at which the farmer buys his fertilizer is also controlled by the government at subsidized prices. The purpose, of course, being a restraint on any increase in the basic cost of food. It has, however, been publicly announced recently that these subsidies are to be removed in two steps within the next two years, but whether or not the government controls will also be removed is yet to be decided."

AMA Plans Program For Midyear Meeting

The American Pharmaceutical Manufacturers Association has issued a program for the general sessions at its midyear meeting, to be held at the Waldorf-Astoria hotel, New York, on November 28 to 30. The general sessions will be held on November 28 and 30 and will include the following agenda:—

November 28

The morning session will be opened with an address by the association's president, Dr. Theodore G. Klumpp, president of Winthrop-Stearns, Inc. There will also be talks by Earl I. McClintock, vice-president of Sterling Drug, Inc., on "Effect of Devaluation on Sales Problems," and by Dr. Lloyd C. Miller, Sterling-Winthrop Research Institute, director of pharmacopoeial revision.

The afternoon session will be opened with an official United States motion picture entitled "The Fleet That Came to Stay." There will also be a symposium on cortisone and ACTH, participated in by Dr. Richard H. Freyberg, associate professor of clinical medicine, Cornell Medical College, who will discuss "Clinical Experiences with Steroid Hormones and ACTH in Rheumatic Diseases"; Dr. R. R. Williams, Research Corporation, who will speak on coordination of research and resolution of patent conflicts encountered, and Dr. John R. Mote, medical director of Armour Laboratories.

November 30

In the morning the following speakers will be heard:—Dr. William Dock, professor of medicine, Long Island College of Medicine. "Can Coronary Diseases Be Controlled"; Dr. John H. Lawrence, division of medical physics, Donner laboratory, University of California, "The Place of Isotopes in Diagnosis and Treatment of Disease"; Dr. Louis H. Bauer, chairman of the board of trustees, American Medical Association, "Progress Against Legislation to Socialize Medicine," and Dr. Norman Joliffe, who will discuss the Newfoundland nutrition survey.

In the afternoon, W. B. Baker, director of the pharmaceutical development division of E. R. Squibb & Sons, will speak on "Development of New Products." V. R. Bechtel, budget director of American Cyanamid Company, will discuss "Inventory and Financial Control," and John H. Hawley, jr., director of the marketing research division, Ciba Pharmaceutical Products, Inc., will speak on "Interpretation and Practical Use of Market Research Data in the Pharmaceutical Industry."

Cosmetic Chemists Set Annual Meeting Papers

The Society of Cosmetic Chemists has completed the program for its annual meeting, to be held at the Savoy-Plaza hotel, New York, on December 8.

In the morning the following papers will be presented:—"Hydrophilic Beeswax Derivatives," by P. J. Carter and W. C. Griffin; "Applications of Radioisotopes to Cosmetic Testing," by L. C. Barail and J. Pescatore; "The Rationale of Odor Classification," by E. C. Crocker, and "On the Inherent Invalidity of All Current Systems of Odor Classification," by E. Sagarin.

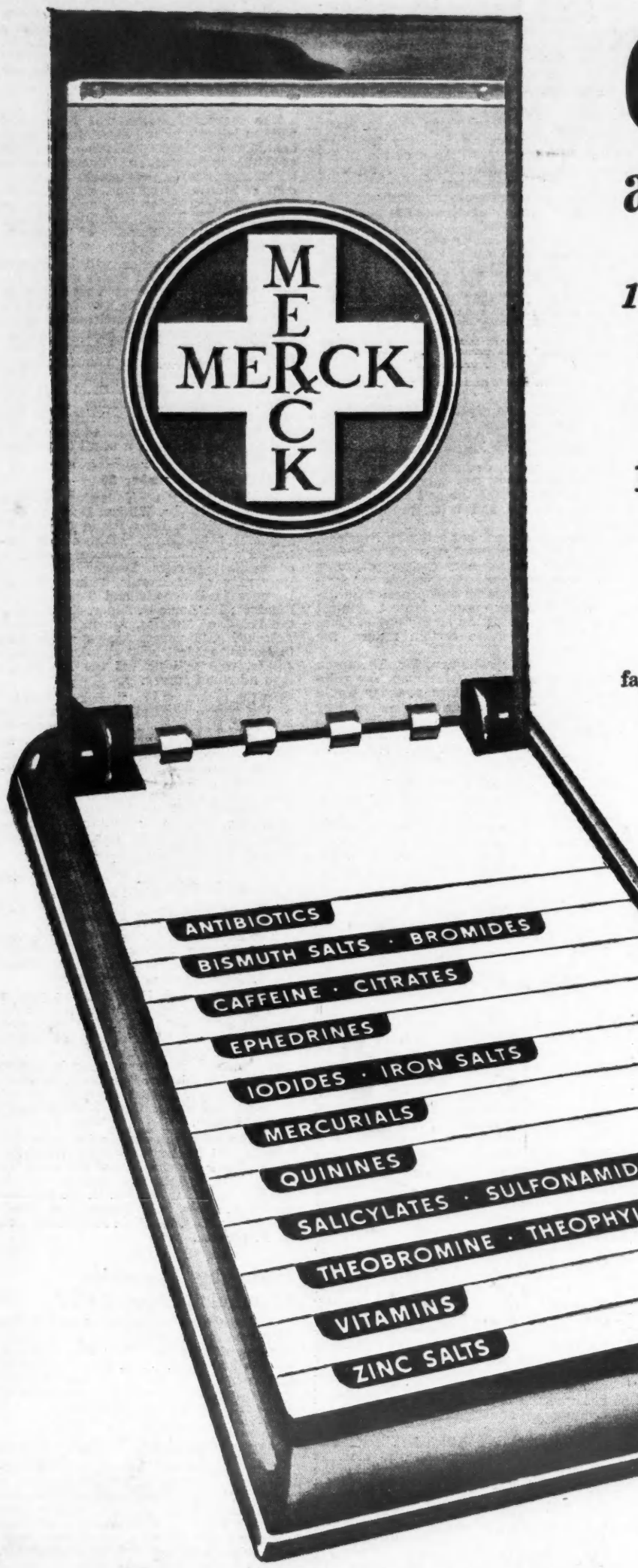
At the afternoon session the following papers will be heard:—"Cold Wave Lotions: Their Cutaneous and Systemic Effect," by H. T. Behrman; "Sorbitol in Cosmetics," by W. C. Griffin, R. W. Behrens and S. T. Cross, and "Ammoniated Dentifrices," by R. G. Kesel, C. J. Henschel and D. A. Wallace.

Packaging Exposition Planned for April 24-27

The American Management Association will hold its nineteenth national packaging exposition at the Navy Pier, Chicago, on April 24 to 27. J. M. Cowan, assistant director of distribution of the Dobeckmun Company, Cleveland, is chairman of the exhibitors advisory committee.

Superphosphate Makers Meet

The International Superphosphate Manufacturers' Association recently held a series of technical meetings in Milan and Assisi, Italy, at the invitation of the Montecatini concern. Discussions centered around sulphuric acid, phosphoric acid, and triple and ordinary superphosphate, and delegates inspected the reconstructed superphosphate plant at Assisi and the sulphuric acid works at Reggio Emilia. The association has scheduled another series of meetings in France during late September or early October of 1951.



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Current Market Quotations

Chemicals and Related Materials

November 18, 1949

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4. The figures in the two columns do not represent bid and asked prices nor a range over the week. They are the quotations prevailing on the date above, on the basis of differences in one or more of these factors:—Quantity, quality, locality, individual supplier's views.

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A

Acacia (see Gum, arabic)
Acenaphthene, m.p. below 92.5 C., dms., works lb. .40 - —
above 92.5 C, dms., works lb. .50 - —
Acetaldehyde, 99%, dms., c.l., works. lb. .11½- .12½
l.c.l., works lb. .12 - .13
tanks, works lb. .09½- .10½
Acetaldol (see Aldol).
Acetamide, CP, fib, dms lb. .65 - .75
tech., fib, dms lb. .38 - .43
Acetanilide, tech., bbls., c.l., dlvd. or frt. equald lb. .22 - .23½
l.c.l., ton lots lb. .23 - .24½
smaller lots lb. .26 - .27½
USP, bbls., 2,000-lb. lots lb. .50 - —
smaller lots lb. .56 - —
Acetic anhydride, dms., c.l., frt. alld. E lb. .13 - —
l.c.l., frt. alld. E lb. .14½- —
tanks, frt. alld. E lb. .11½- —
Acetoacetanilide bbls., dlvd lb. .67½- —
fib. dms., c.l., dlvd lb. .66½- —
l.c.l., dlvd lb. .67½- —
Acetoacetorthoanisidide, fib. dms., works, 500 lbs. or more lb. 1.50 - —
smaller tots, same basis lb. 1.75 - —
Acetoacetorthochloranilide, bbls., dlvd lb. 1.15 - —
fib. dms., c.l., works lb. 1.14 - —
l.c.l., works lb. 1.15 - —
Acetoacetorthotoluidide, bbls., dlvd lb. .90 - —
fib, dms., c.l., works lb. .71 - —
l.c.l lb. .72 - .78
Acetone, CP, dms., c.l., dlvd lb. .09 - —
l.c.l., dlvd lb. .09¼- .10
tanks, dlvd lb. .07½- —
Methyl (see M).
Acetonitrile, dms., c.l., works lb. .43 - —
l.c.l., works lb. .45 - —
Acetophenetidin, USP, bbls., works, frt. equald lb. 1.10 - 1.33
Acetophenone, cns., dms lb. 1.30 - 1.85
tech., l.c.l., dms., works lb. .75 - —
Acetoactoparaphenetidide, d m s., 500 lbs. or more, works. lb. 1.65 - —
smaller lots, same basis lb. 1.90 - —
Acetyl chloride, cbys., works lb. .50 - .60
Acetyltributyl citrate, dms lb. .43 - .45
smaller pkgs lb. .48 - .54
Acetyltriethyl citrate, dms lb. .36 - .38
smaller pkgs lb. .41 - .47
Acid, abietic, com'l, dms., c.l., works lb. .10 - —
l.c.l., works lb. .1145- —
cryst., dms., c.l., works lb. .05½- —
l.c.l., works lb. .06 - .06½
Acetic, com'l or redist., 28%, bbls. 100 lbs. 4.00 - —
56%, bbls 100 lbs. 7.00 - —
70%, bbls 100 lbs. 8.40 - —
80%, bbls 100 lbs. 9.40 - —
glacial, synthetic, CP, dms., works 100 lbs.13.00 - —
cbys., works 100 lbs.16.00 -22.00
USP, cbys., works 100 lbs.13.50 -17.50
tech., dms., c.l., works 100 lbs. 9.00 - 9.50
l.c.l., works 100 lbs. 9.50 -10.00
tanks, works 100 lbs. 7.50 - —

Acetic acid price ranges above are for 40 bbls. or more and for smaller lots. Carboys and cases are 50c. per 100 lbs. higher.

Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP, special, bbls., makers, primary distrib., point of ship't, 100-lb. lots lb. .53 - —
standard, fine, cryst., gran., (30-40 mesh) powd. (80 mesh), bbls same basis, lb. .48 - —

Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Aconitic, 5,000 lbs. 1 shipt., dms. lb. .49 - —
smaller lots, dms lb. .49½- .54½
Adipic, fib. dms., works lb. .26½- —
Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 1.75
Anthranilic, resub., bbls lb. 2.10 - —
tech., bbls. lb. 1.05 1.10
Arsenous, tech. (see Arsenic, white).
USP, powd., dms., kgs lb. .20 .22
Ascorbic, USP, dms., 500-kilo lots. kilo.24.50 - —
25-50 kilo lots kilo.25.00 - —
10-kilo lots kilo.25.35 - —
5-kilo lots kilo.25.70 - —
bots., kilo lots kilo.26.41 - —
500 grams kilo.27.47 - —
Battery, cbys., c.l., E. works. 100 lbs. 1.60 1.75
l.c.l., E. works 100 lbs. 2.15 2.85
Benzoic, tech., bbls., dms., 100 lbs. or more lb. .43 - —
USP, bbls., dms., 100 lbs. up lb. .54 - —
Betaoxynaphthoic, bbls., works lb. 1.25 - —
Boric, tech., 99½%, cryst., bgs., c.l., works ton.115.25 - —
ton lots ex whse, N. Y. or Chi ton.160.00 - —
less ton lots, same basis. ton.165.00 - —
bbls., c.l., works ton.135.25 - —
ton lots, ex whse., N. Y. or Chi. ton.180.00 - —
less ton lots, same basis. ton.185.00 - —
bulk, c.l., works ton.111.75 - —
gran., bgs., c.l., works ton.90.25 - —
ton lots ex whse., N. Y. or Chi. ton.135.00 - —
less ton lots, same basis. ton.140.00 - —
bbls. c.l., works ton.110.25 - —
ton lots, ex whse., N. Y. or Chi. ton.155.00 - —
less ton lots, same basis. ton. 160.00 - —
bulk c.l., works ton.86.75 - —
powd., bgs., c.l., works ton.95.25 - —
ton lots, ex whse., N. Y. or Chi. ton.140.00 - —
Acid, boric, tech., 99½%, powd., less ton lots, same basis ton.145.00 - —
bbls., c.l., works ton.115.25 - —
ton lots, ex whse., N. Y. or Chi ton.160.00 - —
less ton lots, same basis. ton.165.00 - —
bulk, c.l., works ton.91.75 - —
USP $25 per ton higher.
Broener's, bbls lb. 1.34 - —
Butyric, 99%, dms., c.l., works. lb. .34½- —
l.c.l., works lb. .35 - —
tankcars, works lb. .33 - —
Cacodylic, bots. lb.10.00 -11.00
Camphoric, natural, dms lb. 5.00 - 5.65
synth., dms lb. 4.00 - 4.75
Capric, tech., dms lb. .50 - .50½
Caprylic, 99%, dms lb. .50 - .50½
Castor oil, split, dms lb. .21 .22
Chlorosuiphonic, dms., c.l., works. lb. .03 - —
l.c.l., works lb. .03½- .04½
tanks, works lb. .02½- —
Chromic, 99½-99¾%, dms., c.l. works lb. .25½ —
l.c.l., works lb. .26 .27
USP, 5 lb. bots. lb. .32 —
Cinnamic, ref'd., bots lb. 2.50 4.00
Citric, anhyd., gran., fine gran., dms., c.l. lb. .26½- —
10,000 lbs., 1 ship't lb. .27 - —
smaller lots lb. .27½- —
kgs. lb. .28½- —
Anhydrous citric acid powder, ½c per lb. higher
USP, cryst., dms., c.l. lb. .27½- —
10,000 lbs., 1 ship't lb. .28 - —
smaller lots lb. .28½- —
kgs. lb. .29½- —
gran., fine gran., dms., c.l. lb. .24½- —
10,000 lbs., 1 ship't lb. .25 - —
smaller lots lb. .25½- —
kgs. lb. .26½- —
USP citric acid powder ½c. per lb. higher.
Cleve's, mixed, bbls lb. .65 .66
Coconut oil, dist., dms lb. .23¼- .24¼
double dist., dms lb. .25¼- .26¼
Corn oil, s.d., dms lb. .10¼- .11¼
Cottonseed oil, dist., dms lb. .10¼- .11¼
Cresylic, dom., coaltar, 50% above 207°C, non-ret. dms., c.l., frt. equald gal. .91 - —
l.c.l., non-ret. dms., same basis gal. .94 - —
ret. dms. c.l., same basis lb. .88 - —
l.c.l., same basis lb. .91 - —
tanks, same basis gal. .80 - —
50% at 204° to 207° C, c.l., non-ret. dms., same basis gal. .96 - —
l.c.l., same basis gal. .99 - —
ret, dms., c.l., same basis. lb. .93 - —
l.c.l., same basis lb. .96 - —
tanks, same basis gal. .85 - —
Acid, cresylic, petroleum, 179°C. to 196°C., non-ret. dms., c.l., San Francisco and Los Angeles gal. .85½- —
l.c.l., same basis gal. .87½- .89½
tanks, same basis gal. .75 - —
195° to 213° C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .70½- —
l.c.l., same basis gal. .72½- .74½
tanks, same basis gal. .60 - —
200° to 222° C, tanks, Wilmington, Cal gal. .60 - —
211°C to 236°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .65½- —
l.c.l., same basis gal. .67½- .69½
tanks, same basis gal. .55 - —
220° to 242° C, tanks, Wilmington, Cal gal. .55 - .58
237°C to 265°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .60½- —
l.c.l., same basis gal. .62½- .64½
tanks, same basis gal. .50 - —
245° to 298° C, tanks, Wilmington, Cal gal. .50 - —
295° to 325° C, tanks, Wilmington, Cal gal. .40 - —
Crotonic, fib dms., works lb. .29 - —
Cyanoacetic, tech., bbls lb. .90 - 1.25
Desoxycholic lb.17.00 -22.00
Dichlorophenoxyacetic, (see "D", 2, 4-D)
Diethylbarbituric (see Barbital).
Diglycolic, bgs., works lb. .22 - —
Ethylhexoic, dms., c.l., works lb. .31 - —
l.c.l., works lb. .31½- —
tanks, works lb. .29½ —
F, bbls., works lb. 1.87 - 1.93
Folic, bots., fib. ctns., kilo or more gram. 2.00 - —
Formic, 85%, cbys., c.l., works lb. .13 - .13¼
l.c.l., works lb. .13½- .14
90%, cbys., c.l., works lb. .13½- .14
l.c.l., works lb. .14 - .14½
Fumaric, tech., bbls., dms lb. .30 .31
Gallic, NF V, bbls., 1,000-lb. lots lb. 1.60 - —
smaller lots lb. 1.63 1.65
technical, bbls., 1,000 lb. lots lb. 1.43 - —
smaller lots lb. 1.46 1.48
Gamma, bbls lb. 1.20 - —
Gluconic, tech., 50%, bots lb. .22 - .31
dms. lb. .14 - —
kgs. lb. .16 - —
Glutamic, laevo, 99%, fiber dms., 100 lb lots, works lb. 2.30 2.40
25 lb. lots lb. 2.45 - —
Glycerophosphoric, 35%, dms., works lb. 2.15 - 2.25
Glycolic (see Acid, hydroxyacetic).
H, 100% basis, bbls., works lb. .73½- —
Hydriodic, 45-47%, cbys lb. 2.69 - —
57%, cbys lb. 2.83 2.85
Hydrobromic, medicinal, 48%, cbys., dlvd. E lb. .38 - —
tech., 48%, cbys., dlvd. E lb. .34 .36
34%, cbys., dlvd. E lb. .35 .37
Acid, hydrochloric (see Acid, muriatic).
Hydrocyanic, cyls., works lb. 1.00 - —
dilute, NF, 2%, 5-lb. bots lb. .35 - —
Hydrofluoric, anhyd., cyls., works, lb. .19 - .19½
tanks, works lb. .16½- —
30%, wood or rubber, dms., works lb. .08½- .09
70%, steel dms., works lb. .143 - .148
Hydrofluosilicic, 30-35%, bbls lb. .08 - .09
Hydroxyacetic, tech., 70%, bbls., non-return., Phila lb. .084 - —
tanks, Belle, W. Va., 100% basis lb. .083 - —
Hypophosphorus, USP, dms lb. .75 - .77
J, bbls., works, 100% basis lb. 2.50 - 2.85
L, bbls., works lb. .95 - —
Lactic, edible, 50%, bbls., 20 or more lb. .16 - .18
smaller lots lb. .17 - .19
80%, bbls. 20 bbls. or more. lb. .285 - .332
plastic grade, 50%, bbls., 20 or more lb. .19¾- —
10 or less lb. .20¾- —
80%, bbls., 5 or less lb. .3495- .3545
tech., 22%, bbls., r.l., works 100 lbs. 5.80 - —
l.c.l., works 100 lbs. 6.20 - —
cbys., works 100 lbs. 6.70 - —
44%, bbls., c.l., works 100 lbs.10.95 - —
l.c.l., bbls., works 100 lbs.11.35 - —
cbys., works 100 lbs.11.85 - —
NF, 85%, cbys lb. .69 .72
Laurent's, bbls lb. .87 —
Lauric, dist., 85-90%, dms lb. .23 - .23¼
60%, dms. lb. .25 - .25½
Linseed oil, reg. dist., dms lb. .2150- .2210
water-white, dms lb. .2450- .2510
Maleic, powd., dms lb. .30 .31
Anhydride (see M).
Malic, dms. lb. .47 - —
Mandelic, NF, dms., 1,000-lb. lots. lb. 1.85 - —
smaller lots lb. 1.90 2.10
Mixed, tanks, nitric unit lb. .05 .06
sulphuric unit lb. .0085 .009
Molybdic, dms., 85%-92%, works lb. .92 .93
Monochloroacetic, purified, flake, 99%, dms lb. .22½- .23¼
tech., flake, 96-97%, bbls lb. .18 .19
Muriatic, 18°, cbys., c.l., E. works 100 lbs. 1.65 —
l.c.l., E. works 100 lbs. 2.05 - 2.75
tanks, E. works ton.18.00 - —
20°, cbys., c.l., E. works 100 lbs. 1.90 - —
tanks, E. works ton.20.00 - —
22°, cbys., c.l., E. works 100 lbs. 2.40 - —
tanks, E. works ton.25.00 - —
CP, USP, consumers, cbys., extra, c.l., frt. equald lb. .07¾- —
l.c.l., same basis lb. .09¼- .09¾
5 pint bottles extra, cs., c.l., frt. equald lb. .12¾ —
l.c.l., same basis lb. .14¼- .15¼
Acid, muriatic, CP, USP, prices to dealers 1½c. per pound less.
Myristic, dist., dms lb. .45 Nom.
Naphthenic, 220-230 acidity, dms., works lb. .15 - —
tanks, works lb. .12 - —
230-240 acidity, dms., works lb. .22 - —
tanks, works lb. .19 - —
Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's)
Naphthol (1)-5-suphonic see Acid, L).
Naphthol(1)-5-sulphonic,8-amino (see Acid, S).
Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H).
Naphthol(2)-6,8-disulphonic (see Acid, Gamma)
(5)-7-Sulphonic,2-amino (see Acid, J).
Naphtholsulphonic, mixed (see Acid, Cleve's, mixed)
Naphthylamine(1)-5-sulphonic (see Acid, Laurent's).
(2)-6-sulphonic (see Acid, Broener's).
(2)-7-sulphonic (see Acid, F).
(2)-1-sulphonic (see Acid, Tobias).
Neville and Winther's, dms lb. .88 - —
Nicotinic, USP, dms., works kilo 8.00 8.30
Nicotinic amide (see Nicotinamide).
Nitric, 36° cbys., c.l., E. works 100 lbs. 5.00 - —
l.c.l., E. works 100 lbs. 5.40 - 6.10
38°, cbys., c.l., E. works 100 lbs. 5.50 - —
l.c.l., E. works 100 lbs. 5.90 - 6.60
40°, cbys., c.l., E. works 100 lbs. 6.00 - 6.50
l.c.l., E. works 100 lbs. 6.40 - 7.10
42°, cbys., c.l., E. works 100 lbs. 6.50 - 7.00
l.c.l., E. works 100 lbs. 6.90 - 7.60
CP, NF, consumers, cbys., extra, c.l., frt. equald lb. .11½- —
l.c.l., same basis lb. .13 - .13¼
6 pint bottles extra, cs., c.l., frt. equald lb. .15½- —
l.c.l., same basis lb. .17 - .18
Acid, muriatic, CP, USP, prices to dealers 1½c. per pound less.
Octoic (see Acid, ethylhexoic).
Oleic (see Oil, red).
Oleum (see Acid, sulphuric, fuming).
Orthocresotinic, dms., ton lots, works lb. .62 - —
smaller lots, works lb. .64 - —
Oxalic, bbls., c.l., works lb. .14¼- —
10,000 lbs., works lb. .14½- —
smaller lots, works lb. .15¼- .15½
Palm oil, white, dist., dms lb. .21¼ .21¾
Para-aminobenzoic, purified, dms., lots or more, works 100 lbs. 3.75 - —
smaller lots, works 100 lbs. 3.85 - 4.00
technical, dms lb. 1.84 —
Para-aminosalicylic, dms., 1,000-lb. lots or more, works lb. 9.00 - —
smaller lots, works lb. 9.05 -10.00
Paramethylphenylcinchonic (see Neocinchophen).
Paranitrobenzoic, cns. lb. .87 —
Paratoluidinmetasulphonic, bbls., works lb. .92 .95
Peanut oil, s.d., dms lb. .12¾- .13¼
Perchloric, 60%, cbys., works lb. .58 .62
70-72%, cbys., works lb. .61 .66
Phenylacetic, bots lb. 1.51 1.75
Phenylcinchoninic (see Cinchophen).
Phenylglycollic (see Acid, mandelic).

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	neut.	neutral.
ammo.	ammonia	djns.	demijohns	NF	National Formulary
amorph.	amorphous	dlvd.	delivered		
anhyd.	anhydrous	dms.	drums	nom.	nominal
a.p.a.	available phosphoric acid	dom.	domestic	No.	number
		E.	east	ord.	ordinary
artif.	artificial	e.p.	end point	oz.	ounce
ASTM.	American Society for Testing Materials	equald.	equalized	Pac.	Pacific
		F.	fahrenheit	pf.	proof
Be.	Baume	ferment.	fermentation	phos.	phosphate
bgs.	bags	ffa.	free fatty acid	photo.	photographic
bbls.	barrels	ffc.	free from chlorine	pkgs.	packages
bls.	bales			powd.	powdered
bots.	bottles	fib.	fiber	precip.	precipitated
b.p.	boiling point	f.o.b.	free on board	prod.	producer
b.p.l.	bone phosphate of lime	F.P.A.	free of prussic acid	pt.	point
				pulv.	pulverized
b.r.	boiling range	frt.	freight	purif.	purified
bxs.	boxes	fus.	fused	redist.	redistilled
C.	centugrade	gal.	gallon	refd.	refined
cbys.	carboys	gran.	granular	refy.	refinery
CD	completely denatured	grd.	ground	reg.	regular
		i.&a.	iron and aluminum	resub.	resublimed
c.i.f.	cost, insurance, freight	i.b.p.	initial boiling point	ret.	returnable
				SD	specially denatured
cks.	casks	imp.	imported	s.d	single distilled
c.l.	car lots	incl.	included	S. E.	southeast
cns.	cans	indust.	industrial	secs.	seconds
col.	color			s.g.	specific gravity
com'l	commercial	kgs.	kegs	ship't	shipment
conc.	concentrated	lacq.	lacquer	solut.	solution
CP	chemically pure	lb.	pound	s.u.	standard unit
cps.	centipoises	l.c.l.	less than car lots	synth.	synthetic
cryst.	crystal	liq.	liquid	tech.	technical
cs.	cases	m.a.p.	mixed aniline point	USP	U. S. Pharmacopoeia
ctns.	cartons	min.	minimum	vis.	viscosity
cyls.	cylinders	m.p.	melting point	VM&P	varnish makers & painters
dbl.	double	N.	nitrogen	W	west
denat.	denatured	nat.	natural	w.w.	water white
dest.-dist.	destructive-distilled			whse.	warehouse
dist.	dextrorotatory				
dextro.	distilled				

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown, gives the price of 2,000 pounds of the material

Acid, Phosphoric—Alphanitronaphthalene

Acid, phosphoric, food grade, 75%, cbys., c.l., works, frt. equald 100 lbs. 6.50 • —
l.c.l., works, frt. alld. 100 lbs. 7.50 • —
tanks, works, frt. equald 100 lbs. 4.50 • —
NF, 85%, cbys., c.l. lb. .10½- —
For shipments in cbys., add handling charges.
Picramic, bgs. lb. .65 • .70
Picric, tech., bbls. lb. .32 • .33
NF, bbls. lb. .42 • —
Propionic, nat., dms., works lb. .16 • —
tanks, works lb. .17 • —
synth., pure, dms., works lb. .22 • —
tanks, works lb. .21 • —
Pyrogallic, tech., bbls. lb. No prices.
NF, cryst., dms lb. 2.95 • 3.18
resub., dms lb 3.45 • 3.60
Pyroligneous, dms. incl., l.c.l., ex whse gal. .41 • —
Ricinoleate (see Acid, castor oil, split).
S, bbls., works lb. 2.97 • 3.00
Salicylic, tech., bbls., c.l. lb. .28 • .31
smaller lots lb. .38 • —
USP, cryst., bbls., c.l. lb. .40 • —
smaller lots lb. .50 • —
powder, bbls., c.l. lb. .45 • —
smaller lots lb. .55 • —
Sebacic, purif., dms., c.l., works, lb. .47 • —
l.c.l., works lb. .49 • .53
Soybean oil, single dist., dms lb. .11¾- .12¾
double dist., dms lb. .12¾- .13¾
Stearic, double pressed, bgs lb. .13¾- .14¾
single pressed, bgs lb. .13¼- .14¼
triple pressed, bgs lb. .16 • .17

Acid, succinic, bbls., cryst., purified, works lb. .90 • —
tech., bbls., works lb. .65 • .75
Sulphanilic, tech., dms., works lb. .17 • —
Sulphuric, 60° Be, cbys., c.l., E. works 100 lbs. 1.40 • —
l.c.l., E. works 100 lbs. 1.80 • 2.50
tanks, E. works ton.13.75 • —
66° Be, cbys., c.l., E. works 100 lbs. 1.65 • —
l.c.l., E. works 100 lbs. 2.05 • 2.75
tanks, E. works ton.17.00 • —
98%, tanks, E. works ton.18.00 • —
CP, NF, consumers, cbys., extra, c.l., works, frt. equald lb. .07¾- —
l.c.l., same basis lb. .09¼- .09¾
5 pt. bottles extra, ca., c.l., works, frt. equald lb. .11¼- —
c.l., same basis lb. .12¾- .13⅜
fuming, 20%, tanks, E works. ton.19.00 • —
Tallow, dist., dms lb. .09½- .10½
Tannic, tech., 60-62%, dms lb. .68 • .69
70-72%, dms. lb. .80 • .85
75-76%, dms. lb. .86 • .90
USP, fluffy, bbls., 1,000-lb. lots. lb. 1.45 • —
smaller lots lb. 1.47 • 1.55
powder, bbls., 1,000-lb. lots lb. 1.35 • —
smaller lots lb. 1.30 • 1.50
Tartaric, USP, dom., 230, 250 lb. dms., 10,000 lbs., 1 ship't. lb. .34½- —
smaller lots lb. .35 • —
100-lb. dms lb. .36 • —
small, dms lb. .38 • .40
Imported, kgs lb. .33 • .35

Acid, thioglycolic, refined, bbls., cbys., basis 100% lb. 1.60 • 1.80
tech., bbls., cbys., basis 100% lb. 1.40 • —
Tobias, bbls. lb. .65 • —
Trichloroacetic, bots. lb. 2.00 • 2.50
Toluenesulphonic, dms., works, l.c.l. lb. .20 • —
tanks lb. .18½- —
Tungstic, tech., kgs., works lb. 2.20 • 2.40
Aconite leaves, bls lb. .55 • .60
Root, bbls. lb. .60 • .70
Aconitine, amorph., mild, bots oz.27.50 -32.50
cryst., potent, bots oz.78.00 -85.00
Acrolein, dms., works lb. .50 • —
Acrylonitrile, dms., c.l., works lb. .36½- —
l.c.l., works lb. .37 • .55
tanks, works lb. .35 • —
Adeps lanae (see Lanolin)
Adonis vernalis herb, bls lb. .35 • .40
Agar, USP, Kobe, No. 1 strip lb. 2.15 • 2.60
Agaric, white, bls lb. 1.50 • 1.75
Agrimony herb, bls lb. .30 • .35
Alanine, dextro-laevo, dms., works, lb. 8.50 -11.00
Albumen (egg), edible, flake, bbls lb. 2.00 • 2.05
powd., bbls lb. 2.05 • 2.10
tech., cryst., bbls lb. .93 • .98
Albumin, blood, dark (see Blood, dried, soluble)
light, dms., l.c.l. lb. .67½- .72½
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd lb. .31½- —
works lb. .32½- —
l.c.l., dlvd lb. .32½- —
works lb. .33 • —
tanks, dlvd lb. .30 • —
works lb. .31 • —
Amyl, ex pentane, dms., c.l., frt. alld. E. of Miss. lb. .16 • —
l.c.l., frt. alld. E. of Miss lb. .17 • —
tanks, frt. alld. E. of Miss. lb. .15 • —
(see also Fusel oil, ref.)

Alcohol, amyl, fermentation, refined, 126-132°C, dms., c.l., dlvd lb. .33½- —
l.c.l., dlvd lb. .34½- —
tanks, dlvd lb. .32 • —
128-132°C, dms., l.c.l., dlvd. lb. .36 • —
ACS grade, dms., l.c.l., dlvd lb. .42 • —
Benzyl, dms. lb. 60 • .68
tech., dms., works, frt. equald. lb. .45 • .50
Butyl, normal, ferment, fll., ind. prod., dms., c.l., frt. alld. lb. .14 • —
l.c.l., frt. alld lb. .15 • —
tanks, frt. alld lb. .12½- —
tankwagon, frt. alld lb. .13 • —
other production, dms., c.l., frt. alld lb. .14 • —
l.c.l., frt. alld lb. .15 • —
tanks, frt. alld lb. .12½- —
synthetic, normal, dms., c.l. frt. alld lb. .14 • —
l.c.l., frt. alld lb. .15 • —
tanks, frt. alld lb. .12½- —
secondary, dms., c.l., frt. alld. lb. .11½- —
l.c.l., dlvd., frt. alld lb. .12 • —
tanks, dlvd., frt. alld lb. .10 • —
tertiary, dms., c.l., frt. alld. lb. .13½- —
l.c.l., frt. alld lb. .14 • —
tanks, frt. alld lb. .12 • —
Capryl, dms., c.l., works lb. .26 • —
l.c.l. works lb. .27 • —
tanks, works lb. .24½- —
Cetyl, dom., CP., fiber ctns., 1,000 lbs lb. 1.50 • —
smaller lots lb. 1.55 • —
Cinnamic, bots lb. 2.75 • 2.95
Denatured, CD12, CD13, CD14, dms., dlvd. E. of Miss. R. gal. .42½- —
l.c.l., dlvd. E. of Miss. R. gal. .46½- .51½
tanks, dlvd. E. of Miss. R gal. .32½- —

Tankcar sales require written authorization by Alcohol Tax Unit.

SD1, 190 pf., dms., c.l., dlvd. E. of Miss. R. gal. .41½- —
l.c.l., same basis gal. .45½- .50½
tanks, same basis gal. .31½- —
SD2B, dms., c.l., E. of Miss. R. gal. .40 • —
l.c.l., same basis gal. .44 • .49
tanks, same basis gal. .30 • —
SD23H, dms., c.l., dlvd. E. of Miss. R gal. .43 • —
l.c.l., same basis gal. .47 • .52
tanks, same basis gal. .33 • —
SD29, denatured, with acetaldehyde, dms., c.l., dlvd. E. of Miss. R. gal. .40½- —
l.c.l., same basis gal. .44½- .49½
tanks, same basis gal. .30½- —

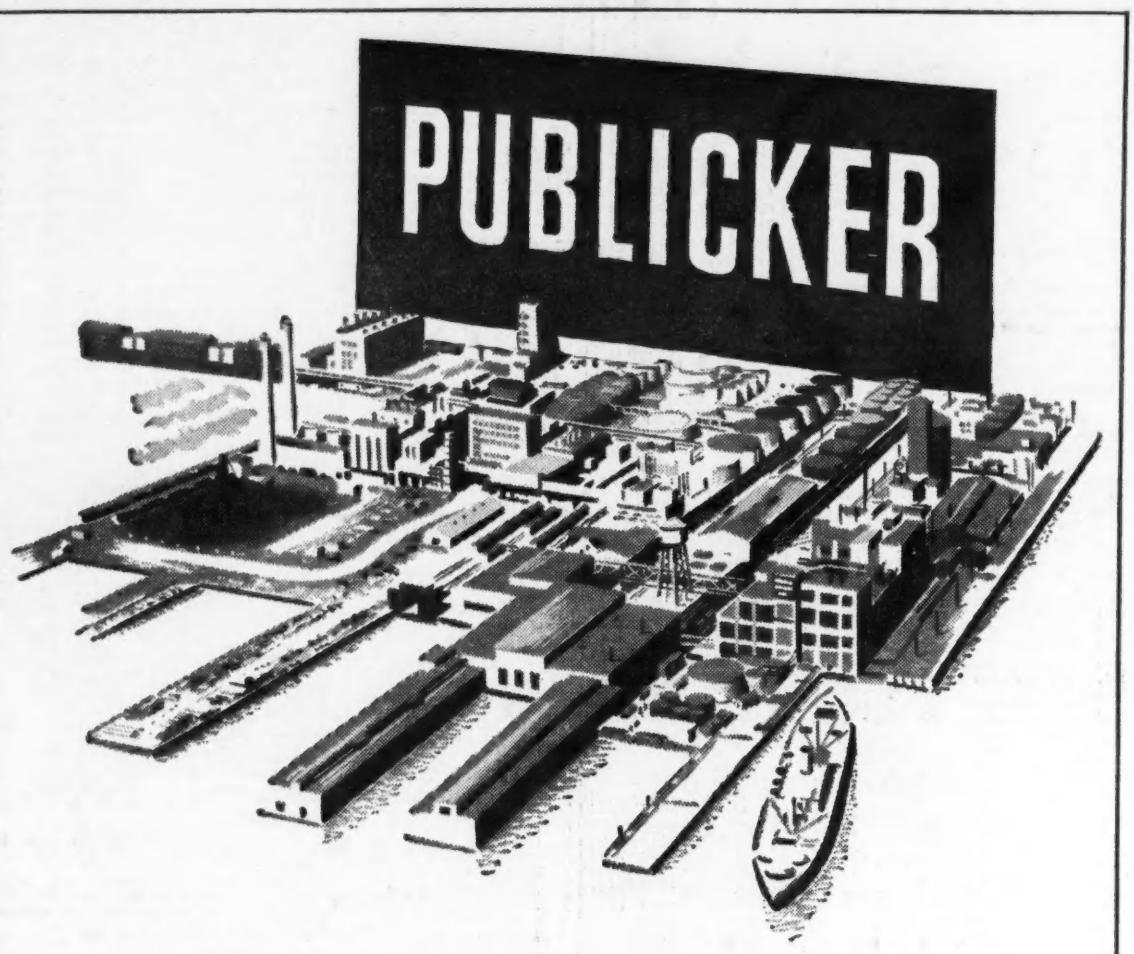
When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.

Proprietary solvent, dms., c.l., dlvd. E. Miss. R gal. .42½- —
l.c.l., same basis gal. .46½- .51½
tanks, same basis gal. .32½- —

Tankcar sales require written authorization by Alcohol Tax Unit.

Special solvent (see Alcohol, denat., proprietary).

Diacetone, acetone free, dms., c.l., dlvd lb. .13½- —
l.c.l., dlvd lb. .14 • —
tanks, dlvd lb. .12 • —
tech., dms., c.l., dlvd lb. .13 • —
l.c.l., dlvd lb. .13½- —
tanks, dlvd lb. .11½- —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. Miss. R. gal.17.49 • —
l.c.l., same basis gal.17.53 -17.56
tanks, same basis gal.17.39 • —
tax free, dms., c.l., dlvd. E. Miss. R. gal. .39 • —
l.c.l., same basis gal. .43 • .48
tanks, same basis gal. .29 • —
absolute, 200 pf., tax paid, dms., c.l., same basis gal.18.44 • —
l.c.l., same basis gal.18.48 -18.53
tanks, same basis gal.18.34 • —
Ethylhexyl, dms., c.l., works lb. .30 • —
l.c.l., same basis lb. .30½- —
tanks, same basis lb. .28½- —
Furfuryl, tech., cns., works lb. .30 • —
dms., c.l., works lb. .21½- —
l.c.l., works lb. .23 • —
tanks, works lb. .18 • —
Isoamyl (see Alcohol, amyl, refined, fermentation).
Isobutyl, dms., c.l., dlvd lb. .14 • —
l.c.l., works lb. .15 • —
tanks, dlvd lb. .12½- —
Iso-octyl, dms., c.l., works lb. .29½- —
l.c.l., works lb. .29¾- —
tanks, works lb. .27¾- —
Isopropyl, refd., 91%, dms. incl., c.l., dlvd. gal. .38 • —
l.c.l., dlvd gal. .41 • —
tanks, dlvd gal. .28 • —
95%, dms. incl., c.l., dlvd. gal. .39½- —
l.c.l., dlvd gal. .42½- —
tanks, dlvd gal. .29½- —
NF, 99%, dms. incl., c.l., dlvd. gal. .41 • —
l.c.l., dlvd gal. .44 • —
tanks, dlvd gal. .31 • —
Methyl (see Metnanol).
Methylamyl (see Carbinol, methylisobutyl).
Nonyl (see Trimethylhexonal).
Octyl, perfumer's grade, bots lb. 2.15 • 3.25
technical (see Octanol normal).
Pantothenyl (see Panthenol).
Phenylethyl, cns. lb. 1.40 • 1.70
Polyvinyl, type A, fiber-pack., Niagara Falls lb. .65 • .70
type B, fiber-pack, same basis lb. .60 • .68
Propyl, normal, dms., c.l., dlvd. lb. .09½- —
works lb. .08 • —
l.c.l., dlvd lb. .10 • —
works lb. .08½- —
tanks, dlvd lb. .08 • —
works lb. .06½- —
Salicyl (see Saligenin).
Tetrahydrofurfuryl, cns., Cedar Rapids, Ia lb. .47 • —
dms., c.l., Waverly, N. Y. lb. .40 • —
l.c.l., same basis lb. .44 • —
tanks, Niagara Falls, N. Y. lb. .36 • —
Aldol, 95%, dms., works lb. .15 • .16
denaturing grade, dms. gal. 1.33 • 1.48
Aletris root, bgs. lb. 1.50 • 1.60
Algin, bbls., fib. dms lb. .76 • 1.00
Alizarin (see Red, alizarin)
Alkanet root, bgs lb. .40 • .45
Mexican, bgs lb. .19 • .19½
Allspice, Jamaica (see Pimento).
Allyl bromide, cbys., 5,000 lbs., works lb. .09 • —
smaller lots, works lb. 1.05 • 1.10
Chloride, dms., c.l., dlvd lb. .16½- —
l.c.l., dlvd. lb. .17 • —
tanks, dlvd. lb. .15 • —
Aloe, Cape, cs lb. .21 • .23
Curacao, kgs lb. .35 • .36
Socotrine, kgs lb. .35 • .36
Aloin, USP, bbls., dms., kgs lb. 3.75 • 4.05
Alphacellulose, bgs., c.l., works lb. .04 • .15
Alphanaphthol, bbls lb. .70 • —
Alphanaphthylamine, bbls lb. .41 • .42
Alphanaphthylthiourea, 93-98%, fib. dms., works, frt. alld lb. 2.00 • 2.40
Alphanitronaphthalene, bbls lb. .34 • —



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Alphapicoline—Antimony Oxide

Alphapicoline, ref. dms., c.l., works, frt. equald lb. .27 - .30
l.c.l., works, frt. equald lb. .29½ - .30
Alphapinene, tanks, South, works gal. No prices.
Alphaterpineol, dms., l.c.l., dlvd lb. .17 - —
Alphatocopherol, bots kilo. 350.00 - —
Acetate, bots kilo. 350.00 - —
Althea root, NF, peeled, bls lb. .30 - .40
Alum, ammonia, gran., bbls., works, 100 lbs 3.80 - —
lump, bbls., works 100 lbs. 4.05 - —
powd., bbls., works 100 lbs. 4.20 - —
USP, burnt, bbls. lb. .20 - .21
hydrous, bbls. lb. .07¾ - .08
Potash, gran., bbls., works 100 lbs. 4.05 - —
lump, bbls., works 100 lbs. 4.30 - —
powd., bbls., works 100 lbs. 4.45 - —
USP, hydrous, bbls. lb. .07¾ - .08
Potash-chrome, dms lb. .17 - —
Soda, bbls., c.l., works 100 lbs 3.25 - —
l.c.l., dlvd 100 lbs. 4.25 - 5.00
Alumina, calcined, bgs., c.l., works lb. .03¼ - .05
crystalline (see Aluminum oxide).
Aluminum acetate, basic solution, 24%, bbls., l.c.l., works lb. .11 - —
20%, bbls., l.c.l., works lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., works lb. .10 - —
l.c.l., works lb. .10½ - —
cryst., com'l, dms., c.l., works lb. .0650 - —
l.c.l., works lb. .0690 - —
NF, gran., dms., works lb. .27 - .28
solution, 32°, cbys., c.l., works lb. .03¼ - —
l.c.l., works lb. .04 - —
Fluoride, tech., anhyd., bbls., c.l., works lb. .10 - —
l.c.l., works lb. .11 - .13
Aluminum formate, basic solution, cbys., c.l lb. .09¼ - —
l.c.l., works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald ton. 50.00 - 54.00
l.c.l., works ton. 72.00 - 86.00
light, bgs., dlvd lb. .17 - —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib. dms., works lb. .21¼ - —
contract, works lb. .20¼ - —
9-9½% Al_2O_3, fib. dms., works lb. .18¼ - —
contract, works lb. .17¼ - —
dried, USP XII, fib. dms., works. lb. .79½ - —
contract, works lb. .76½ - —
powder, tech. (see Aluminum hydrate).
Laurate, precip., bbls lb. .42 - —
Linoleate, solid, dms., frt. alld. lb. .48 - —
Metal, 98-99%, ingots, 10,000 lbs. lb. .27 - —
pigs, 10,000 lbs lb. .16 - —
Naphthenate, liquid, 1.7%, frt. alld lb. .24½ - .25
Oleate, dms., precip lb. .35¼ - —
Oxide, amorphous (see Alumina, calcined).
crystalline, flour, classified, 8-240 mesh, dms., frt. alld lb. .14 - .15
kgs., ton, frt. alld lb. .12½ - —
smaller lots, frt. alld lb. .13 - .18
280-400 mesh, dms., frt. alld lb. .32 - .33
kgs., frt. alld lb. .31 - —
500 mesh, dms., frt. alld lb. .35 - .37
kgs., frt. alld lb. .34 - —
Aluminum oxide, crystalline, flour, classified, 600 mesh, dms., frt alld lb. .51 - .53
kgs., frt. alld lb. .50 - —
optical, floated, kgs., dlvd lb. .36 - .86
unclassified, dms., frt. alld. lb. .16 - .17
kgs., frt. alld lb. .15 - —
high-purity, alpha or gamma, ultrafine, dms., works lb. 13.50 - —
jars, works lb. 15.00 - 17.00

Aluminum oxide flour prices W of Denver ¾c. per lb. higher.

Paste, lining, extra fine, dms lb. .58 - —
standard, dms lb. .39¼ - —
Powder, lining, extra fine, dms lb. .66 - —
standard, dms lb. .64½ - —
rubber comp., dms lb. .48½ - —
unpolished, standard, dms lb. .44½ - —
varnish, standard, dms lb .49 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb dm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.

Resinate, precip., dms., frt. alld. lb. .24 - —
Stearate, dibasic, ctns., c.l lb. .30 - —
l.c.l. lb. .31 - —
monobasic, ctns., c.l. lb. .30 - —
l.c.l. lb. .31 - —
tribasic, ctns., c.l. lb. .29 - —
l.c.l. lb. .31 - —
Aluminum sulphate, com'l, bgs., c.l., works, equald 100 lbs. 1.50 - —
l.c.l., same basis 100 lbs. 1.90 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 2.75 - —
l.c.l., works 100 lbs. 3.15 - —
NF, gran., dms., works lb. .27 - .28
powd., dms., works lb. .32 - .33
Trihydrate, heavy (see Aluminum hydrate)
Ambergris, gray, tins oz. 8.50 - 12.00
Aminoazotoluene, bbls lb. .97 - 1.03
Aminomethylpropanol, cns., dms., works lb. .50 - .60
Aminoethylethanolamine, dms., c.l., works lb. .51½ - —
l.c.l., works lb. .52 - —
tanks, works lb. .50 - —
Aminophylline, USP, bots., kgs lb. 6.00 - —
Aminopyrine, USP, bots., dms lb. 6.00 - 6.15
Ammonia, anhydrous, fertilizer, tanks, works ton. 74.00 - 75.00
pure, cyls., extra, zone 1 lb. .17 - .17½
2 lb. .19 - .19½
3 lb. .21 - .21½
4 lb. .16 - .19½
refrigeration, tanks, works ton. 76.50 - 77.50
Aqua (29.4% NH_3), dms., c.l., works 100 lbs. 3.10 - —
l.c.l., works 100 lbs. 3.50 - —
tanks, works, anhyd. basis ton. 80.00 - 81.00
Ammoniac gum (see Gum, ammoniac)
Sal, gray, bgs., c.l., works, frt. equald 100 lbs. 6.55 - —
l.c.l., same basis 100 lbs. 6.95 - —
white, gran., bgs., c.l., works 100 lbs. 4.75 - —
l.c.l., works 100 lbs. 6.25 - —
Ammoniacal liquor, tankcars, works, anhyd. basis ton. 80.00 - 81.00
Ammonium acetate, purified, dms lb. .39 - .49
reagent, jars lb. .61 - .63
Benzoate, USP, dms., kgs., 4,000 lbs., frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.08
Biborate, bbls., c.l., works ton. 302.00 - —
ton lots, works ton. 355.50 - —
less ton lots, works ton. 360.50 - —
Bicarbonate, dms., works, c.l lb. .05½ - —
l.c.l., works, dms lb. .06 - —
Bichromate, bbls., works lb. .31 - .32
Bifluoride, dms., dlvd lb .18 - .18¼
Bromide, gran., NF, bbls lb. .36 - .37
dms. lb. .37 - .40
powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, powd., dms. lb. .18½ - .22
Chloride, tech. (see Ammoniac, sal).
USP, gran., bbls., dms lb. .18 - .19
Citrate, dibasic, bbls lb. .75 - —
dms. lb. .80 - .85
Fluoride (see Bifluoride).
Hydroxide (see Ammonia aqua)
Hypophosphite, NF, dms lb. 2.40 - —
Iodide, NF, jars lb. 3.79 - 3.91
Linoleate, plastic, 80%, dms., works lb. .40½ - —
kgs., works lb. .42½ - —
25%, dms., frt. alld lb. .21½ - —
tech., obls., works lb. .37 - —
dms., works lb. .39 - —
Molybdate, metal grade, kgs lb. .90 - —
chemical grade, bbls., kgs lb. .85 - —
A.C.S., grade, dms lb. .88 - —
Nitrate, fertilizer grade, Canadian, 32.5% N, bgs., c.l., shipping point ton. 63.00 - —
dom., bgs., western works ton. 58.00 - —
Nitrate-dolomite, 20.5% N, bgs., Hopewell, Va ton. 46.00 - —
Oleate, dms., precip lb. .23¼ - —
Oxalate, fine gran., dms lb. .25 - .31
Pentaborate, gran., bbls., c.l., works ton. 12.00 - —
ton lots, works ton. 265.50 - —
less ton lots, works ton. 270.50 - —

Ammonia pentaborate powder, $10 per ton higher.

Perchlorate, kgs., works lb. .50 - .75
Persulphate, kgs lb. .25½ - .28¼
Phosphate, com'l, bgs., c.l., works, lb. .08 - —
l.c.l., works lb. .08½ - —
dibasic, NF V, bbls., dms lb. .40 - —
tech., bgs., c.l., works lb. .08 - —
l.c.l., works lb. .08½ - —
Salicylate, NF, dms., kgs lb. 1.25 - 1.28
Silicofluoride, dms., works lb. .12 - .13
Stearate, 28%, dms lb. .21 - .31
paste, dms lb. .06½ - —
Sulphamate, bbls., dms., works lb. .18 - .20
Sulphate, coke-oven, bulk, producing ovens ton. 45.00 - 50.00
converters', bulk, works ton. 45.00 - 50.50
Sulphide, liquid, 40-45% basis, 100%, dms., c.l., works, lb. .10½ - —
l.c.l., works lb. .15½ - —
tanks, dlvd. or frt. alld lb. .09 - —
Sulphocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate tech., bbls., c.l., works lb. .15 - —
l.c.l., works lb. .16 - .19
Thioglycollate, highly purified, 100% basis, cbys lb. 1.70 - 2.25
commercial, same basis lb. 1.40 - 1.95
Thiosulphate, jars lb .32 - .36
Amphetamine citrate, dextro, bots. lb. 36.00 - —
dextro-laevo, dms lb. 6.50 - —
Hydrochloride, dextro, dibasic, bots lb. 36.00 - —
monobasic, bots lb. 34.00 - —
dextro-laevo, dms lb. 6.50 - —
Phosphate, dextro, dibasic, bots. lb. 36.00 - —
dextro-laevo, dibasic, dms lb. 6.50 - —
monobasic, dms lb. 6.00 - —
Sulphate, dextro, bots lb. 36.00 - —
dextro-laevo, dms lb. 6.50 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd lb. .16½ - —
l.c.l., dlvd lb. .17½ - —
tanks, dlvd lb. .15 - —
ex pentane, dms., c.l., frt. alld. E. of Miss. R lb. .16 - —
l.c.l., same basis lb. .17 - —
tanks, same basis lb. .15 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms lb. .90 - 1.00
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .76 - .81
Anethol, com'l, dms., works lb. .50 - —
NF, cns., dms lb. .77 - .82
Angelica root, dom., bls lb. .65 - .70
imported, bls lb. .70 - .75
Angostura bark, bls lb. .44 - .49
Aniline oil, dms., c.l., works, frt. alld lb. .15 - —
l.c.l., works, frt. alld lb. .16 - —
tanks, works, frt. alld lb. .14 - —
Salt, dms., works lb. .26 - —
Anise, Argentine, bgs lb. No stocks.
Chinese, star lb. .16 - .16½
Cyprus, bgs lb. .20 - .20½
Mexican, bgs lb. .14¾ - .15
Syrian, bgs lb. .15 - .15½
Anisic aldehyde, bots., dms lb. 2.10 - 2.35
Annatto paste, bxs lb. .32 - .33
Seed, bgs lb. .18 - .20
Anthracene, 80-85%, bbls., works lb. .60 - .66
90%, bbls., works lb. .81 - 1.00
Anthraquinone, 99.5%, bbls lb. .85 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys lb. .29 - .30
Metal, bulk, c.l., mines lb. .32 - —
Oxide, ceramic grade, bgs., c.l., frt. alld lb. .27 - —
l.c.l., frt. alld lb. .28 - —
paint grade, bgs., c.l., frt. alld. lb. .27 - —
l.c.l., frt. alld lb. .28 - —

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'WIRZ specially designed elongated nozzle on large-diameter tube permits just the right flow of caulking compound. Gives your product greater convenience in use. Assures smoother, easier application. Keeps compound in proper working condition down to the last bit. WIRZ Caulk-Tip tubes can be furnished with round or beveled opening ... maximum 5/16". Fitted with plastic caps, Wirz Caulk-Tip Tubes are decorated with Wirz famous hard, resistant finishes which withstand dirt and hard usage. Minimum order 100 gross. Write today for quotation, giving us the consistency of your product, the size you wish to pack and the quantity you need. Wirz new Tube Catalogue #R available on request.

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Collapsible Metal Tubes • Lacquer Linings • Wax Linings • Westite Closures • Soft Metal Tubing • Household Can Spouts • Applicator Pipes • Compression and Injection Molding

Antimony salt, 65%, bgs., c.l., dlvd. E. of Miss. lb. No stocks.
Sulphide, 62-64%, bgs., frt. alld., dlvd. lb. .20 - .23
Antimony-potassium tartrate (see Tartar emetic).
Antipyrene, USP, dms. lb. 2.35 - 2.45
Apomorphine, USP, bots. oz. 23.20 - 23.70
Archil extract, bbls lb No stocks.
Areca nuts, powd., bbls lb .22 - 25
Arecoline hydrobromide, NF, bots. oz. 5.00 - 5.75
Arginine hydrochloride, laevo kilo 140 00 - 150 00
Argols, min. 70%, bgs., shipment ports, per 100 kilos (100% purity) 18 00 - 18 50
Arnica, flowers, bls lb. .45 - 75
root, bls lb. 1.45 —
Arrowroot, powd., bgs lb 13 16
Arsenic, metal, lump, bbls., prompt shipt lb. .80 90
Sulphide, yellow, bbls lb No stocks.
Trioxide (see Acid, arsenous)
White, powd., bbls., c.l., dlvd. lb. .05½ —
l.c.l., dlvd lb. .06¼ - .06¾
Asafetida, cs lb. .32 - 35
powd., bbls., dms lb. .50 .53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton.940.00 -960.00
No. 2, c.l. (20 tons), mines ton.485.00 -492.00
Run-of-mine, c.l. (20 tons), mines ton.400.00 - —
Fiber, 3K, c.l. (20 tons), mines, ton.313.00 - —
3R, c.l. (20 tons), mines ton.267.00 - —
3T, c.l. (20 tons), mines ton.249.50 - —
3Z, c.l. (20 tons), mines ton.231.00 - —
4K, c.l. (20 tons), mines ton.124.50 - —
4M, c.l. (20 tons), mines ton.124.00 - —
4T, c.l. (20 tons), mines ton.111.50 -141.00
4Z, c.l. (20 tons), mines ton.111.50 - —
5D, c.l. (20 tons), mines ton.88.00 - —
5K, c.l. (20 tons), mines ton.88.00 - —
5M, c.l. (20 tons), mines ton.84.00 - —
5R, c.l. (20 tons), mines ton.78.50 -79.00
6D, c.l. (30 tons), mines ton.58.00 -59.00
7D, c.l. 30 tons), mines ton.52.00 -52.50
7F, c.l. (30 tons), mines ton.49.00 -49.50
7H, c.l. (30 tons), mines ton.41.50 -42.00
7K, c.l. (30 tons), mines ton.35.00 -35.50
7M, c.l. (30 tons), mines ton.30.50 -31.00
7R, c.l. (30 tons), mines ton.29.50 -30.00
7T, c.l. (30 tons), mines ton.28.00 -28.50
7RF, c.l. (30 tons), mines ton.30.50 -31.00
7TF, c.l. (30 tons), mines ton.30.50 -31.00
8S, c.l. (30 tons), mines ton.19.00 -27.00

Prices quoted above are in U. S. funds. Add $4 per ton for l.c.l. lots.

Asphaltum, cut-back, tanks, tank wagon, refinery gal. .09 - —
Emulsion, tanks, tank wagon, refinery gal. .09½ - .10
Gilsonite, brilliant black, selects 270°-295° F. fusing pt., bgs., f.o.b. Colo. mines ton.36.50 - —
seconds, 300°-390° F. fusing point, not uniform, bgs., Colo. mines ton.31.00 - —
jet, bgs., ton lots, gross weight, Colo. mines ton.36.50 - —
Manjak, No. 10, crude, dms., works lb. .06½ - —
process form, bgs., works lb. .05¼ - .13
Steam-rfd., less than 80 penetration,, tanks, tankwagon, refinery ton.22.00 - —
80-300 penetration, tanks, tankwagon, refinery ton.21.00 - —
Atropine, USP, bots oz.13.50 -14.00
Sulphate, USP, bots oz. 9.00 - 9.35

B

Bacitracin, bulk, unlabeled, topical, 2,000 units vial. .40 - —
10,000 units vial. .78 - —
50,000 units vial. 2.86 - —
Balm of Gilead buds, dried, bgs lb 1.40 - 1.50
Barbasco root (see Cube root).
Barberry, root bark, bgs lb. .60 - .65
tree bark, bgs lb. .53 - 55
Barbital, USP, dms. lb. 4.50 - —
Sodium, USP, dms. lb. 4.75 - —
Barium carbonate, precip., bgs., 10 tons and up, works ton.72.50 -80.00
smaller lots, works ton.82.50 -90.00
Chlorate, kgs., works. lb. .25½ - .31
Chloride, NF, cryst., dms lb. .17 - .18
tech., bgs., c.l., works, frt. equald ton.90.00 - —
l.c.l., works ton.100.00 - —
Chromate, bgs., frt. equald lb. .31½ - .32
Dioxide, dms., c.l., works lb. .12 - —
l.c.l., works lb. .12 - —
Hydrate, crystals, bgs. lb. .09 - .09½
Hydroxide, anhyd., bbls., works lb. .19 - —
Iodide, bots. lb. 5.12 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works lb. .11½ - —
l.c.l., works lb. .13 - —
Oxide, grd., dms., c.l., works lb. .11 - —
l.c.l., works lb. .11½ - —
Peroxide (see Dioxide).
Stearate, ctns., c.l lb. .34 - —
smaller lots lb. .35 - .36
Sulphate, tech. (see Barytes and Blanc fixe).
X-ray, bbls lb. .12½ - .13
Sulphide, dms., c.l., works ton.55.00 - —
l.c.l., works ton.70.00 - —
Barium-potassium chromate, dms., c.l., frt. alld lb. .20 - —
l.c.l., works lb. .21 - —
Baryte ore, approx. 94% $BaSO_4$, bulk, mines ton. 9.40 -12.50
Barytes, water-grd., paper bgs., c.l., St. Louis ton.35.05 - —
l.c.l., same basis ton.36.85 - —
ex whse., N. Y. ton.49.65 - —
Southern off-color, bgs., mines ton.19.00 - —
95.75%, bgs., mines ton.20.00 - —
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. .75 - 1.10
Root, bls lb. .45 - .50
Bauxite, bulk, mines ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works ton.11.00 - —
Benzaldehyde, NF, dms lb. .68 - —
tech., cbys., dms lb. .45 - —
Benzal chloride, cbys., works lb. .19 - .25
Benzene (see Benzol).
Hexachloride, 99% gamma isomer (see Lindane)
12% gamma, tech., bgs., dms., c.l., works lb. .24 - —
l.c.l., works lb. .26¼ - —
6% gamma, 50% dust, dry, distributors, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd lb. .16 - —
wet, distributors, dms., c.l., dlvd lb. .16½ - —
l.c.l., dlvd lb. .17½ - —
Benzidine base, bbls lb. 1.02 —
Benzocaine, cns lb. 3.25 3.35
Benzol (benzene), pure, nitration, tanks, works, Bethlehem, Pa., Dangerfield, Tex., Lackawanna, N. Y., Philadelphia, Pa., Sparrows Point, Md., St. Louis, Mo., Syracuse, N. Y., Wyandotte, Mich. gal. .21 —
Birmingham, Ala., Chicago district, Cleveland district, Johnstown, Pa., Minequa, Colo., Pittsburgh district, Terre Haute, Ind., Woodward Ala., Youngstown, Ohio. gal .20 - —

Benzophenone, dms lb. 1.15 - 1.70
Benzothiazyl disulfide, 50-lb. bgs., 150-lb. containers, works, frt. alld., ton lots lb. .35 - —
less ton lots, same basis lb. .37 - —
Benzoyl chloride, cbys., dms., c.l., works, frt. eq lb. .20½ - .21
l.c.l., same basis lb. .21½ - .22
Peroxide, pure, fib. ctns., works, lb. .90 - 1.05
Benzyl acetate, t.f.c., dms lb. .60 - 1.00
Alcohol (see Alcohol, benzyl)
Benzoate, USP, f.f.c., cns., dms lb. .88 - 1.00
Chloride, tech., cbys., c.l., works, frt. equald lb. .19 - .19½
l.c.l., same basis lb 20 - .20½
high grade, 2c. higher.
Cinnamate, cns lb 3.00 - 4.00
Formate, cns lb. 1.60 - 3.50
Propionate, bots lb. 1.34 - 2.30
Salicylate, bots. lb. 1.55 - 2.25
Benzylidinacetone, bots. lb 1.85 - 2.70
Benzylisoeugenol, bots lb 8.90 - 9.00
Berberine, bisulphate, cns lb.45.75 -48.00
Hydrochloride, bots. lb.45.75 -48.00
Sulphate, cns. lb.45.75 -48.00
Berberis root, bls lb. .35 - 40
Betagammapicoline, dms., c.l. works, lb. .21 - 23½
l.c.l., works lb. .21½ - 24
Betamethylnaphthalene, m.p., 32°C., dms., works lb. .90 - —
Betanaphthol, resublimed, dms., works. lb. .75 - —
tech., bbls., c.l., works lb. .30 - —
l.c.l., works lb. .32 - —
Benzoate, fib. dms., works lb. 1.75 - —
Salicylate, dms. lb. 5 00 - —
Betanaphthylamine, tech., bbls., works lb. .80 - —
Betaphenylethylamine, dms., works, 1,000-lb. lots lb. 1.25 - —
smaller lots lb. 1.60 - —

Betapicolin, 90%-95%, dms., c.l., works lb. 1.35 - —
98%, dms., c.l., works lb. 1.85 - —
Beth root, bls lb .45 - .50
Biotin, cryst. gram.12.50 - —
Bismuth chloride, jars lb. 3.95 - —
Bismuth citrate, USP VIII, jars lb. 3.27 - —
Hydroxide, dms lb 4.18 - —
Metal, bxs., ton lots lb. 2.00 - —
Nitrate, cryst., dms lb 1.85 - —
Oxychloride, dms lb. 3.97 - —
Oxide, anhydrous, dms lb. 4.60 - —
Phenolsulphonate, fib. dms lb 4.70 - —
Subcarbonate, USP, dms lb. 2.80 - —
Subgallate, NF, fib dms lb. 2.75 - —
Subiodide, fib. dms. lb 4.90 - —
Subnitrate, NF, dms lb. 2.30 - —
Subsalicylate, USP, dms lb. 3.20 - —
Bismuth-ammonium citrate, USP, powd., dms lb. 3.80 - —
Black, acetylene, bgs., c.l., works lb. .13½ - —
cs., l.c.l. shipt. point lb. .17 - .19
Bone, bgs., bbls., l.c.l., dlvd lb .14½ - .22½
Carload price ½c. per lb. less. Deliveries to the Pacific Coast, ex dock or whse., 1½c. per lb. higher.
Carbon, channel, beads, bulk, c.l., works lb. .0650- —
bgs., c.l., works lb. .0690- —
l.c.l., dlvd. or whse lb. .117 - .1175
uncompressed, regular, bgs., c.l., works lb. .0832- —
bgs., ctns., l.c.l., dlvd. or whse lb. .13¾ - —
furnace, fast extruding, bgs., c.l., works lb. .05½ - —
ctns., l.c.l., whse lb 09½ - —

Antimony Salt—Bleaching Powder

Black, carbon, high modulus, bgs., c.l., works lb. 05 - —
ctns., l.c.l., whse lb 09 - —
semi-reinforcing, bgs., c.l., works lb. 03½ - —
ctns., l.c.l., whse lb 07½ - —
very fine, bgs., c.l., works lb 0740 —
l.c.l., dlvd. or whse lb 1125 - .1170
Charcoal (see C).
Graphite (see G).
Iron oxide, synthetic, bgs., c.l., works lb. .10¾ - —
l.c.l., works lb. 11 - —
Lamp, bgs., c.l., works lb 07 .30
Mineral, bgs., works lb 0160- 0675
Black ash (see Barium sulphide).
Blackberry root, bls lb .12 - 13
bark of root, bls lb .30 - .32
Black dyes (see Dyes).
Black haw, root bark, bls lb. 70 - .80
Tree bark, bls lb. .28 - .30
Black Indian hemp root, bls lb. 45 - .50
Blanc fixe, dry, by-product, bgs., c.l., works ton.77.50 - —
l.c.l., works ton.85.00 - —
direct process, bgs., c.l., works ton.85.00 - —
l.c.l., works ton.90.00 - —
N. Y. whse ton.108.00 - —
bbls., c.l., works ton.90.00 - —
l.c.l., works ton.95.00 - —
N. Y. whse. ton.113.00 - —
pulp, 66⅔%, bbls., c.l., works, ton.67.00 - —
l.c.l., same basis ton.73.00 - —
Bleaching powder, dms., c.l., works, 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 5.00 - —

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Newly-installed efficient equipment at our Newark, N. J., plant is now producing high-quality Chromic Acid Flake. Analyses by independent Testing Laboratories certify that this new production contains scarcely a "trace" of impurities . . . is consistently low in chlorides, sulphate and insolubles. It more than meets every requirement of the electroplating industry, as well as U. S. Government Specification AN-A-21.

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Blood, Dried—Calcium Chloride

Blood, dried, 16-16½% ammo., bgs., unit-ton 8.25 - —
high-grade, unground, 16-17% ammon., bulk, Chicago, unit-ton 9.25 - —
soluble, bgs., c.l. lb. 16½ - 17½
l.c.l. lb. 17½ - 22
Bloodroot, bls lb. 43 45
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N.C., E of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 1.90 —
Toner, obls., ultno flushed, same basis lb. 1.05 - —
Celestial, bbls., same basis lb. .15 .16
Chinese, bbls., same basis lb. 45 —
Cobalt, genuine, bbls same basis lb. 4.90 - —
imitation (see Blue, ultramarine).
Copper-phthalocyanine, full strength, bbls., same basis lb. 3.75 3.85
80%, bbls., same basis lb. 3.00 3.40
Iron (see Blue, Chinese, Milori, Potash, Prussian, and Soda).
Methyl violet toner, bbls., same basis lb. 4.20 - —
Milori, bbls., same basis lb. 45 —
Peacock, fugitive, 100% color strength, same basis lb. 60 70
Permanent toner, green shade, molybdic, bbls., same basis lb. 3.75 - —
tungstic lb. 4.00 - —
Potash, CP, bbls., same basis lb. 51 - —
Prussian, bbls., same basis lb. 45 - —
soluble, bbls., same basis lb 45 - —
Soda, C.P., bronze, bbls., same basis lb .39 - —

Blue, ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .25 - .26½
jobbing type, dry, bbls., same basis lb. .14 —
regular types, dry or pulp, bbls., same basis lb. .19 - .29
Victoria toner, molybdic, bbls lb. 3.75 - —
Tungstic, bbls lb. 3.75 - —
Violet toner, molybdic, bbls., same basis lb. 1.24 —
Tungstic, kgs., same basis lb. 2.60 2.70

Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago.

Blue dyes are listed under Dyes.

Blueflag, root, bls. lb. 45. .50
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate)
Boldo leaves, bls lb. .09 .12
Bone, raw, bulk, Chicago ton. 75.00 —
junk, bulk, same basis ton. 50 00 -52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works ton. 65.00 - —
Chicago, works ton. 65.00 - —
steamed, feeding grade, 1% ammon., 60% phos., bgs., E. works ton. 65.00 - —
Chicago, works ton. 65.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works. ton. 65.00 - —
Chicago, works ton. 65.00 - —
Phosphate, defluorinated (see D).
precipitated (see Calcium phosphate tribasic precip).

Boneset leaves, bls lb. .14 - .16
Borage flowers, bls lb. .40 - .45
Borax, tech, anhydrous, bgs., c.l., works ton. 70.50 - —
ton lots, ex whse. N. Y. or Chi ton. 115.25 - —
less ton lots, same basis, ton. 120.25 - —
bbls., c.l., works ton. 90.50 - —
ton lots, ex whse, N. Y. or Chi ton. 135.25 - —
less ton lots, same basis, ton. 140.25 - —
bulk, c.l., works ton. 64.00 - —
crystals, 99½%, bgs., c.l., works, ton. 61.25 - —
ton lots, ex whse, N. Y. or Chi ton. 106.00 - —
less ton lots, same basis, ton. 111.00 - —
bbls., c.l., works ton. 81.25 - —
ton lots, ex whse, N. Y. or Chi ton. 126.00 - —
less ton lots, same basis, ton. 131.00 - —
bulk, c.l., works ton. 57 25 - —
granular, 99½%, bgs., c.l., works ton. 35.25 - —
ton lots, ex whse. N. Y. or Chi ton 80 00 - —
less ton lots, same basis, ton. 85.00 - —
bbls., c.l., works ton. 55.25 - —
ton lots, ex whse, N. Y. or Chi ton. 100.00 - —
less ton lots, same basis, ton. 105.00 - —
bulk, c.l., works ton. 31.25 - —
powdered, 99½%, bgs., c.l., works ton. 40.25 - —
ton lots, ex whse, N. Y. or Chi ton. 85 00 - —
less ton lots, same basis, ton. 90.00 - —

Borax, technical, powdered, bbls., c.l., works ton. 60.25 - —
ton lots, ex whse, N. Y. or Chi ton. 105.00 - —
less ton lots, same basis, ton. 110.00 - —
bulk, c.l., works ton. 36.25 - —
Borax packed in kgs. is $40 per ton higher than borax packed in paper bgs. USP borax $15 per ton higher than tech.
Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. point lb. .15 - .21
l.c.l., same basis lb. .16 - .23
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brazilwood extract (see Hypernic).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies lb. .21 - —
1,000 lbs., same basis lb. .23 - —
single pkgs., same basis lb. .28 - —
dms., lead-lined, c.l., dlvd lb. .19 - —
Bromoform, USP, bots lb. 1.50 1.75
cbys. lb. 1 42 —
Bromstyrol, bots lb. 4.85 6.25
Bronze powder, aluminum (see A).
Gold, litho., cans, dms., works lb. .50 .60
moulding, cans, dms., works lb. .80 1.00
printing ink, cans, dms., works lb. .95 1.10
radiator, cans, dms., works lb. .60 .65
Broomtop, bls. lb. .25 .28
Brown, iron, synth., bgs., l.c.l., works lb. .12½ —
Oxide, metallic, bgs., works lb. .05 .03¾
Sap, crystals, works lb. .12 —
powdered lb. .13 —
Sienna, burnt, paper bags, c.l., works lb. .03¾ - .14¾
l.c.l., works lb. .04 - .15
raw, paper bgs., c.l., works lb. .04 - .12½
l.c.l., works lb. .04¼ - .12¾
Umber, burnt, American, c.l., bbls., works lb. .04¾ - .05¾
l.c.l., bgs., works lb. .05 .06¾
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N.Y. lb. .05¾ - .07¾
l.c.l., works lb. .06 - .08
raw, American, bgs., same basis lb. .03¾ - .06
Turkey type, bgs., same basis lb. .06 .06¼
Vandyke, bbls., works lb. .09¾ - .12
Brucine, cns., 100 ozs oz. .45 - —
Sulphate, NF, cns., 100 ozs oz. .35 - —
Bryonia root, bls lb. .29 - .35
Buchu leaves, bls lb. .75 - .80
Buckhorn bark, bls lb. .14 - .18
cut and sifted, bls lb. .23 - .25
Berries, bgs lb. .80 - .90
Burdock, root, bls lb. .20 - .26
Butadiene, cyls., refy lb. 19 - —
tanks, same basis lb. .11½ - —
Butane, indust., tanks, group 3 gal. .04 - —
Butternut bark, bls lb. .19 - .25
Butyl acetate, normal, ferment., ill., ind., prod., dms., c.l., works, frt. alld lb. .14 - —
l.c.l., same basis lb. .15 - —
tanks, same basis lb. .12½ - —
tankwagons, same basis lb. .13 - —
other production, dms., c.l., same basis lb. .14 - —
l.c.l., same basis lb. .15 - —
tanks, same basis lb. .12½ - —
synthetic, normal, dms., c.l., same basis lb. .14 - —
l.c.l., same basis lb. .15 - —
tanks, same basis lb. .12½ - —
secondary, dms., c.l., same basis lb. .11½ - —
l.c.l., same basis lb. .12 - —
tanks, same basis lb. .10 - —
Alcohol (see Alcohol butyl)
Aldehyde, dms., c.l., works lb. .17½ - —
l.c.l., works lb. .18½ - —
tanks, works lb. .16 - —
Ether (see Ether, butyl)
Isobutyl methacrylate, P-5, 50/50, cns., works lb. .60 - —
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .42½ - —
l.c.l., same basis lb. .43½ - —
tanks, same basis lb. .41 - —
Laurate, dms., works lb. .42 - —
Methacrylate, M-4, dms., works lb. .60 - —
cns., works lb. .63 - .67
P-4, cns., works lb. .65 - —
Myristate, dms., works lb. No prices.
Oleate, ref'd., dms., l.c.l., works lb. .52 - —
Phenylacetate, dms lb. 2.00 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., dlvd lb. No stocks
tanks, dlvd. lb. No stocks
Stearate, dms., c.l. frt. alld. E. of Rockies lb. .32 - —
l.c.l., same basis lb. .33 - —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter).
Cadmium bromide, jars lb. 2.49 - 2.80
Iodide, jars lb. 5.10 - —
Lithopone (see Yellow).
Metal, ingots or sticks, cs., dlvd lb. 2.00 - —
patent shapes, cs., dlvd lb. 2.15 - —
Selenide (see Red).
Sulphide (see Yellow)
Caffeine, natural, USP, cryst., dms., 100 lbs. or more lb. 4.75 - —
anhydrous, dms., 100 lbs. or more lb. 5.00 - —
Synthetic, USP, cryst., dms., 100 lbs. or more lb. 3.80 - —
anhydrous, dms. 100 lbs. or more lb. 4.00 - —
Citrated, USP, dms., 100 lbs. or more lb. 2.60 - —
Hydrobromide, bots lb. 6.70 Nom.
Calabar beans, bgs., futures lb. 65 66
Calamine, USP, dms lb. .27 - .29
Calamus root, dom., bgs lb. .27 - .30
imported, bleached, bls lb. .70 Nom.
peeled, bls lb. .30 .31
Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1,000,000 USP units), works gram 4.00 - —
1,000 to 10,000 s.u., works gram 4.40 - —
less than 1,000 s.u., works gram 4.80 - —
in edible oil, dms., 10,000 or more unit. .10 - —
1,000 to 10,000 s.u., works unit. .11 - —
less than 1,000 s.u., works unit. .12 —
Calcium acetate, bgs., dlvd 100 lbs. 3.00 4.00
Arsenate, dealers, dms., c.l., whse., works, frt. alld lb. .09½ - —
l.c.l., same basis lb. .10½ - —
Bromide, NF, jars lb. 75 - .85
Carbide, standard generator size, dms., c.l., dlvd ton. 121.00 - —
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars lb. .28 .30
flake, 77-80%, paper bgs., c.l., works, frt. equald ton. 22.00 —
l.c.l., same basis ton. 37.00 - 67.00
liquor, works, basis 40%, tankcars ton. 9.00 —
pellets, bgs., c.l. works ton. 29.00 - —
solid, 73-75%, dms., c.l., works, same basis ton. 20.00 —
l.c.l., works, same basis ton. 30 00 - 59.00
USP, gran. bbls lb. .30 - —

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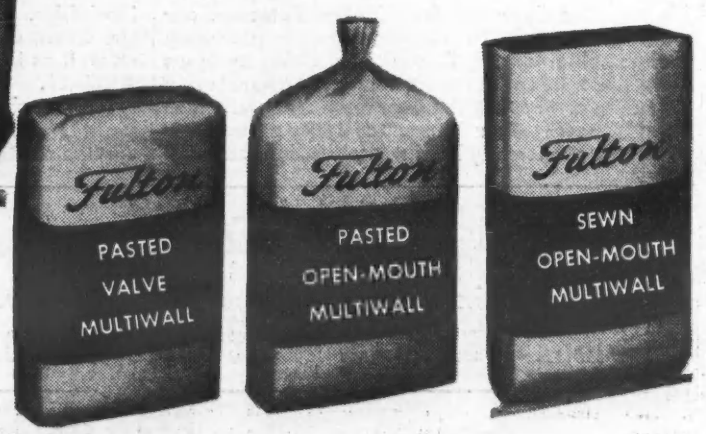
Whatever your Multiwall requirements may be—pasted or sewn bottom, open mouth or valve—Fulton makes them in every size.

The Multiwalls we are turning out are winning compliments on every hand for their clean cut appearance and uniform high quality of workmanship. Try Fulton on your next order for Multiwalls—set your own standards for quality—see for yourself that Fulton Multiwalls measure up.



FULTON IS GEARED to give you complete bag service in both Textile and Multiwall bags. Call on us.

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856-S.

Calcium chromate, bgs., frt. equald	lb.	.29½	.30
Cyanide, dms. dlvd. E. of Rockies	lb	.39	.50
Gluconate, AA, bbls., dms	lb.	.65	.72
USP, bbls., dms	lb.	.58	.65
Glycerophosphate, NF. fib. dms	lb.	1.65	1.80
Hydride, dms., works	lb.	.90	—
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies	dm.	24.00	28.50
cns., cased (45 lbs.) same basis	cs.	19.75	21.50
Hypophosphite, 50-lb. lots, dms	lb.	.80	.83
Iodide, jars	lb.	4.12	—
Lactate, USP, dms	lb	.37	.44
Mandelate, USP, dms., works	lb.	2.10	2.25
Naphthenate, liq., 4% Ca, dms., frt. alld	lb.	.23¾	—
Nitrate, tech., works	lb.	.07	.09
Pantothenate dextro jars	gram	.07½	—
Phenolsulphonate, dms	lb.	.64	.65
Phosphate, dibasic, USP, bgs., c.l., 100 lbs.		6.75	—
l.c.l. 100 lbs.		7.10	7.45
feed grade, bgs., 10 tons, works	ton.	105.00	—
one ton or over, works	ton.	115.00	—
less than one ton, works	ton.	125.00	—
monobasic, bgs., 10,000 lbs., works, frt. equald	lb.	.05¾	—
smaller lots, same basis	lb.	.06¼	—
tribasic, bgs., c.l., works 100 lbs.		6.50	—
l.c.l., works 100 lbs.		6.95	7.30
Phytate, bgs., works	lb.	.28	—
Resinate, precip., dms., frt. alld. works	lb.	.24	—
Silicate, hydrated, bgs., c.l., works	lb.	.05½	—
l.c.l., works	lb.	.06	—
Stearate, precip., cns., c.l., works.	lb.	.32	—
l.c.l., works	lb.	.33	.34
Sulphate (see Gypsum).			
Sulphide, 76%, bgs., c.l., works	ton.	45.50	—
70%, bgs., c.l., works	ton.	50.00	—
luminous, tins, works	lb.	1.25	—
Calcium-strontium sulphide, phosphorescent, dms., works	lb.	1.06	1.50
fine particle size, dms., works	lb.	1.50	1.75
Calendula flowers, bls	lb.	.50	.85
Calomel, USP, cryst., dms	lb.	1.82	1.83
fine powd., dms	lb.	1.97	1.98
Camphene, chlorinated, 67-69% (see Toxaphene).			
Camphor, monobromated, NF, dms., kgs	lb.	3.10	3.20
natural	lbs.	No prices.	
synth., tech., bbls., 2,000 lbs. or more, works	lb.	.42	—
10 bbls. (1,500 lbs.)	lb.	.44½	—
smaller lots	lb.	.45	.55
USP, gran., powd., bbls., 2,000-lb. lots	lb.	.53	—
1,000-lb. lots	lb.	.54	—
smaller lots	lb.	.55	—
tablets, tins, 2,000-lb. lots	lb.	.73	—
1,000-lb. lots	lb.	.74	—
smaller lots	lb.	.75	—
Canada balsam (see Fir balsam).			
Canella alba bark, bls	lb.	.25	.30
Cantharides, Chinese, cs	lb.	1.00	1.30
powd., bxs.	lb.	1.15	1.50
Russian, bgs	lb.	4.50	5.00
powd., bxs.	lb.	5.75	6.00
Capsicum (see Pepper, red).			
Oleoresin, NF VIII, cns	lb.	6.50	6.75
Caramel coloring, NF, bbls	gal.	1.02	1.20
Caraway seed, Danish, bgs	lb.	.14½	.15
Dutch, bgs	lb.	.14	.14½
Carbazole, 97%, steel dms., ton lots, works	lb.	1.75	—
fib. dms., same basis	lb.	1.70	—
Carbinol, butyl, secondary, dms., l.c.l., works	lb.	.70	—
Methylisobutyl, dms., c.l., frt. alld. E	lb.	.13	—
l.c.l., same basis	lb.	.13½	—
tanks, same basis	lb.	.11½	—
Carbon bisulphide, 50-gal. dms., c.l., works, frt. alld. to competitive points	lb.	.06¼	—
l.c.l., same basis	lb.	.07¼	—
5-gal. dms., same basis	lb.	.09½	—
l.c.l., same basis	lb.	.08¾	—
tankcars, same basis	lb.	.0445	—
Dioxide, cyls	lb.	.06	.08
Tetrachloride, CP, dms., works	lb.	09	.11½
tech., dms., E. of Rockies, c.l., frt. alld	lb.	.08	—
l.c.l., same basis	lb.	.08½	—
W. of Rockies, c.l., f.o.b. stock points	lb.	.08½	—
l.c.l., frt. alld.	lb.	.09	—
NF, cbys	lb.	.17	.19
Carboxymethylcellulose-Sodium—See CMC.			
Carbromal, NF, dms., 100-lb. lots, works	lb.	4.00	4.25
100-lb. lots, works	lb.	4.10	4.75
Cardamom fruit, bleached, bold, cs.,	lb.	3.40	3.45
medium, cs	lb.	3.25	3.30
Coorges, cs., futures	lb.	2.25	2.30
decorticated, Guatemalan, cs., futures	lb.	2.70	2.75
Indian, cs., futures	lb.	2.70	2.75
green, Alleppey, bgs., afloat	lb.	2.20	2.25
Ceylon, bgs., afloat	lb.	2.15	2.20
Seed (See Cardamom fruit, decorticated)			
Carmine, No. 40, NF, bulk, 100 lbs. or more	lb.	5.50	—
smaller lots	lb	5.65	6.15
Carotene, crystals, research grade, ampuls, pure alpha or beta.	10 mg.	5.00	—
90% beta-10% alpha, ampuls	100 mg.	2.00	—
bulk, grain quantities	gm.	5.00	—
technical, 1,350,000 A units per gram	gm.	.67½	—
tins, works	gm.	.62	—
dry powder, 3,330 A units per gram	lb.	.70	—
emulsion (in milk), 500,000 A units per 16-oz. cn	cn.	.85	—
in vegetable oil, 250,000 A units, per gram	lb.	37.50	—
50,000 A units per gram	lb.	7.87	—
26,000 A units per gram, tins, works	milli. units.	.32	—
dms., works	milli. units.	.30	—
3,330 A units per gram	lb.	.85	—
microcrystalline, in oil, 400,000 A units per gram, tins, works	milli. units.	.50	—
Carvol, bots	lb.	10.00	16.00
Cascara sagrada bark, bulk	lb.	.28	.30
Case-hardening mixture, 30% gran., dms., l.c.l., works	lb.	.10½	—
Casein, dom., acid-precip., standard, bgs., 10,000 lbs. or more, ship't point	lb.	.23	.23½
premium, bgs., 10,000 lbs. or more, ship't point	lb.	.23	.24
rennet-precip., bgs., 10,000 lbs. or more, ship't point	lb.	.23	Nom.
imp., acid-precip., ground, 100 bgs. or more, ex dock	lb.	.18¾	.19
Cashew nut liq., treated, dms., c.l., f.o.b. Newark, N. J.	lb.	.21	—
ton lots, same basis	lb.	.22¼	—
dm. lots, same basis	lb.	.24¼	—
Cassia bark, Batavia, longstick, bls.	lb.	.27	.28
broken, bls	lb.	.25	.25½
short stick, bls	lb.	.23	.24
Cassia, China, Canton, rolls, select, cs.	lb.	.12½	.13
broken, bls	lb.	.12	.12½
Honan, rolls, scraped, bls	lb.	.15½	.16
broken, bls	lb.	.15	.15½
unscraped, bls	lb.	.14	.14½
broken, bls	lb.	.13½	.14
Yunnan, rolls, scraped, bls	lb.	.15½	.16
broken, bls	lb.	.15	.15½
unscraped, bls	lb.	.14	.14½
broken, bls	lb.	.13½	.14
Saigon, broken, bls	lb.	.27	.30
medium, bls	lb.	.36	.37
thin, bls	lb.	.42	.43
Buds, China, bgs	lb.	.20	.22
Cassia fistula, bskts	lb	30	.35
Castor beans, bgs., Brazilian ports	long ton.	106.00	—
Oil (see Oil, castor)			
Pomace, bgs., c.l., works	ton.	24.00	—
Castoreum, nat., cns	lb.	12.00	45.00
synthetic, cns	lb.	24.00	—
Catechol, CP, cryst., fib. dms., works.	lb	2.00	—
resublimed, dms., works	lb.	4.00	—
Catnip, bls	lb.	.50	.55
Celery seed, French, bgs	lb.	.25	.26
Indian, bgs.	lb.	.21	.21½
futures, bgs	lb.	.21	.21½
Celluloid scrap (see Pyroxylin scrap.			
Cellulose acetate, flake, ctns., works, frt. alld on 100 lbs. or more	lb.	.36	.40
granules, ctns., same basis	lb.	.42	—
molding composition, plain colors, translucent, metallic pearls, special black, dms., c.l., frt. alld	lb.	.40	—
l.c.l., same basis	lb.	.45	.51
regular black, dms., l.c.l., same basis	lb.	.31	.39
variegations, dms., l.c.l., same basis	lb.	.50	.59
Cellulose acetate, molding and extrusion transparents, dms., c.l., same basis	lb.	.47	—
l.c.l., same basis	lb.	.49	.54
extrusion compounds, translucent metallic pearls, special black, dms., c.l., same basis	lb.	.42	—
l.c.l., same basis	lb.	.44	.49
Butyrate, flake, 17% butyryl content, ctns., 500 lbs. or over, works	lb.	.52	—
less than 500 lbs., works	lb	.53	—
17.5% butyryl content, ctns., 500 lbs. or over, works	lb.	.49	—
less than 500 lbs. works.	lb.	.50	—
26.5% butyryl content, ctns., 500 lbs. and over, works.	lb.	.53	—
less than 500 lbs., works	lb.	.54	—
37% butyryl content, ctns., 500 lbs., and over, works	lb.	.53	—
less than 500 lbs., works	lb.	.54	—
48% butyryl content, ctns., 500 lbs. and over, works	lb.	.53	—
less than 500 lbs., works.	lb.	.54	—
molding composition, plain colors, pearls, transparents, special black, dms., l.c.l., frt. alld.	lb.	.56	.61
regular black, dms., l.c.l., same basis	lb.	.44	.48
variegations, dms., l.c.l., same basis	lb.	.61	.66
Triacetate, flake, ctns., works, frt alld. on 100 lbs. or more	lb.	.40	—

Calcium Chromate—Chestnut Extract

Cerium hydrate, dms., works	lb.	1.25	—
Oxalate, NF, bbls., bgs., works	lb.	.70	.72
Oxide, optical grade, bgs., under 100 lbs., works	lb.	2.25	—
kgs., 100-lb. lots, works	lb.	1.85	—
Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l., works	lb.	.02¾	.05¼
l.c.l., ex whse	lb.	.04	—
paint, bgs., c.l., works	ton.	40.00	—
papermakers, bgs., c.l., works.	ton.	32.50	40.00
rubber makers bgs. c.l., works	ton.	30.00	—
Chamomile flowers, Hungarian, cs.	lb.	.45	.48
Roman, bls	lb.	.95	1.00
Charcoal, activated, USP, fib. dms., c.l., works	lb.	.25	.32
5-ton lots, works	lb.	.26½	.32½
smaller lots, works	lb.	.27	.50
Bone, NF, bbls	lb.	.23	—
Hardwood, briquets, bulk, c.l., works	ton.	49.80	—
bgs., c.l., works	ton.	51.80	—
granular, bgs., incl., c.l., works.	ton.	46.80	50.00
lump, bulk, c.l., works	ton.	38.80	43.50
ogs., extra, returnable, c.l., works	ton.	41.80	45.50
Pinewood, gran., powd., ogs., c.l., works, South	ton.	30.00	40.00
l.c.l., works	ton.	40.00	50.00
lump bgs., c.l., works, South	ton.	35.00	—
bulk, c.l., works, South	ton.	23.50	—
bgs., l.c.l., works, South	ton.	40.00	50.00
Willow, powd., bbls	lb.	.06	.07
Chestnut extract, 25% tannin, bbls., c.l., works	lb.	.0465	—
l.c.l., works	lb.	.0495	—
tanks, works	lb.	.0375	.0390
powd., 65% tannin, bgs., extra, c.l., works	lb.	.1105	—
l.c.l., works	lb.	.1170	.1180

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China Clay—Dyes, Coaltar, General Use

China clay, dom., dry-grd., air-floa. 99.75% 300 mesh, bgs., c.l., works ton.12.50 -13.00
l.c.l., works ton.13.50- 14.00
bulk, c.l., works ton. 9.50 -10.00
200 mesh, bgs., c.l., works ton.10.00 -12.00
l.c.l. works ton.11.00 -16.00
wet-grd., silk-bolt, 99½%, 325 mesh, bulk, c.l., works ton.13.00 - —
paper bgs., c.l., works. ton.16.00 - —
imported, white lump, bulk, c.l., ex dock Phila., Portland, Me.... gross ton.19.00 -40.00
powd., bgs., c.l., ex dock, net ton.35.00 -45.00
l.c.l., ex whse....net ton.45.00 -60.00

Chloral, tech., dms., c.l., works lb. .41 - —
l.c.l., works lb. .42 - —
tanks, works lb. .40 - —
Hydrate, USP, jars lb. 1.05 - 1.15

Chloramine T, NF, bbls., works lb. .75 - 1.00

Chlordane, agricultural, dms., l.c.l. stock points lb. .82 - 2.00
refined, dms., stock points lb. .97 - 2.15

Chlorinated paraffin, dms., works lb. .12¼- .13½

Rubber, standard, ctns., c.l., works lb. .42 - —
l.c.l., works lb. .43 - —

Chlorine, liquid, cyls., c.l., works lb. .07 - .12
l.c.l., stock points lb. .09 - .19
tanks, single units, works, frt. equald 100 lbs. 2.40 - —
multiple units, 3 cars, works, frt. equald 100 lbs. 2.70 - —
2 cars, same basis 100 lbs. 3.30 - —
1 car, same basis 100 lbs. 3.90 - —

Chloroform, tech., dms., c.l., dlvd. E lb. .20 - —
l.c.l., same basis lb. .22 - —
tanks, same basis lb. .16 - —
USP, dms. lb. .30 - .33

Chloro(4)-2-Toluidine, sbls. lb. 1.38 - —

Chlorophyll, oil soluble, water soluble, cosmetic and pharmaceutical, bots lb. 4.00 - 4.50

Chloropicrin, com'l, bots lb. 1.40 - —
cyls., 180-lbs., frt. alld lb. .91 - —
100-lbs., same basis lb. .93 - —
25-lbs., same basis lb. 1.18 - —

Cholesterol, USP, fib. dms., 100-lb. lots lb. 8.50 - —
5-lb. pkg. lb. 9.00 - —
1-lb. pkg. lb. 9.50 - —

Choline chloride, fib. dms., works lb. 2.90 - 3.00
Dihydrogen citrate, fib. dms., works, lb. 3.00 - 3.10

Chromium acetate, powd., 72% Cr., bbls., works lb. No stocks
solut., 7%, bbls., cs lb. .08 - .08¼
8½%, bbls., cs. lb. No stocks
Fluoride, bbls., works lb. .44½- —
Green (see Green, chrome).
Oxide (see Green, chromium oxide).
Oleate, solid, bbls. lb. .45 - —
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).

Chrysarobin, USP, bots. lb. 7.65 - 9.24

Cinchona bark, N.F., red, quill, 20-inch, cs lb. 1.26 Nom.
broken, bgs lb. .40 - .45
yellow, broken, bgs. lb. .35 - .40

Cinchonidine, small cryst., cns., 100 ozs oz. .71 - —
Sulphate, cns., 100 oz. oz. .85 - —

Cinchonine, large cryst., cns., 100 ozs oz. .69 - —
small cryst., cns., 100 ozs oz. .65 - —
Sulphate, N.F., cns., 100 ozs oz. .42 - —

Cinchophen, NF, heavy, dms., works lb. 3.70 - 4.05
Standard, dms., works lb. 3.50 - 3.85

Cinchophen-sodium, standard, dms., works lb. 4.50 - 4.85

Cinnamic aldehyde (see Alcohol, cinnamic).
Aldehyde, cbys., cns., dms lb. .83 - .90
Cinnamon, Ceylon, No. 2, bls. lb. .19 - .20
Citral, bots., cns. lb. 3.60 - 4.85
Citronellal, bots., dms. lb. 2.50 - 7.75
Citronellol, bots., dms. lb. 2.95 - 4.75
Civet, bots. oz. 4.00 - 5.00
artificial, bots. lb.15.00 - —
Clove, Madagascar, bls. lb. .19 - .19½
futures, bls. lb. No offering
Zanzibar, bls. lb. .20 - .21
futures lb. .18 - .19
Clover tops, red, dom., bgs. lb. .55 - .65
imported, bgs. lb. No stocks

CMC, purified, high vis., ctns., 20,000 lbs. or over, works, frt. alld lb. .63 - —
smaller lots, same basis lb. .65 - .75
low and medium vis., ctns., 20,000 lbs. or over, works, frt. alld lb. .60 - —
smaller lots, same basis lb. .62 - .72
tech., low vis., dms., c.l., works lb. .30 - —
l.c.l., works lb. .32 - —

Coaltar, coal-gas, water-gas, crude, resale, dms., c.l., ex-whse, gal. .23½- —
l.c.l., ex-whse gal. .25 - —
tanks, ex-whse gal. .13½- —
refd., resale, bbls., c.l., ex-whse, gal. .24½- —
l.c.l., ex-whse gal. .26 - —
tanks, ex-whse gal. .14½- —

Cobalt acetate, bbls., dlvd lb. .93½- —
Carbonate, powd., bgs., works lb. 1.65 - —
feed grade, 49½% Co, kgs lb. 1.65 - —
Chloride, kgs., works lb. .91¼- —
feed grade, 24.5% Co, kgs lb. .91¼- —
Hydrate, bbls lb. 2.13 - —
feed grade, 62% Co, kgs lb. 2.13 - —
Linoleate, paste, 6% Co, dms. lb. .57 - —
solid, 8½%, Co, dms lb. .66½- —
8% Co, dms lb. 62½- —
Metal, 97-99%, kgs., ex-whse lb. 1.80 - —
under 100 lbs., ex-whse lb. 1.62 - 1.87
Naphthenate, liq., 6% Co, dms. lb. .37¼- —
Nitrate, feed grade, 20.4% Co, bbls. lb. 78¾- —
Oxide, black, kgs lb. 1.38 - —
Phosphate, feed grade, 34%, Co, kgs lb. 1.31¼- —
Resinate, fused, 3% Co, dms lb. .22¾- —
Sulphate, bgs. lb. .68¼- —
feed grade, 21% Co, kgs lb. 1.05 - —
Cobalt salts, prices are on dlvd., basis
Cobalt-ammonium sulphate, 14% Co, kgs lb. .75 - —

Cocaine, USP, cns., 100-oz oz.15.00 - —
Hydrochloride, cns., 100-oz. lots oz.11.75 - —
Cochineal, gray, bgs lb. .67 - .68
silver, Teneriffe, bgs lb. .69 - .70
Coconana bark, bgs lb. .16 - .17
Cocoa butter, bgs lb. .54 - .54½
Codeine, NF, cns., 100 ozs oz.13.25 - —
Hydrochloride, cns., 100 ozs oz.11.85 - —
Phosphate, USP, cns., 100 ozs oz.10.25 - —
Sulphate, USP, cns., 100 ozs oz.10.75 - —
Codliver oil (see Oil, codliver).
Cohosh, black, root, bls. lb. .24 - .26
Blue, root, bls lb. .17 - .19
Colchicine, USP, bots., cns. oz.86.00 -96.00
Colchicum root, bls lb. .60 - .70
Seed, bgs lb. 2.25 - 2.50
Collodion, USP, dms. lb. .24 - .29
Flexible, USP, dms lb. .25½- .30½
Colocynth, pulp, bls lb. .30 - .35
Colombo root, bls lb. .18 - .23
Coltsfoot leaves, bgs lb. .30 - .35
Condurango bark, bgs lb. .18 - .20
Copaiba balsam, cns., dms lb. .58 - .60

Copper acetate, cupric, bbls., works lb. .28 - —
smaller containers, works lb. .29 - .30
Carbonate, 55%, bgs., works lb. .1860- .1960
Chloride, anhyd., bbls., works lb. .25½- —
crystals, bbls., works lb. .17¾- —
Citrate, USP, 5-lb bots Av. 2.40 - —
Cyanide, tech., bbls lb. .46½- —
Gluconate, dms., cns. lb. 3.00 - 3.20
Hydrate, dms., dlvd. E. Miss lb. .24¾- .25¼
Metal, electrolytic, dlvd lb. .18½- —
Naphthenate, liquid, 8% Cu, dms., frt. alld lb. .22¼- —
Nitrate, tech., cryst., bbls., works. lb. .22¼- —
Oleate, liquid, 8.5% Cu, bbls lb. .27 - —
solid, 10% Cu, bbls lb. .39 - —
Oxide, black, bbls., works lb. .25½- .28½
red, com'l, bbls., works lb. .26½- .30½
Oxychloride-sulphate, bgs., frt. alld lb. .24¼- .27¼
Quinolate lb. 3.50 - —
Resinate, precip., dms., frt. alld. lb. .23½- —
Stearate, bgs., works lb. .39½- —
Sulphate, cryst., 99%, bgs., c.l., works 100 lbs. 7.00 - 7.25
l.c.l. 100 lbs. 7.25 - 8.25
CP, cryst., gran., dms., works lb. .12¾- —
monohydrated, 35%, dms., c.l., dlvd 100 lbs.11.90 -13.00
tribasic, dealers, bgs., c.l., works lb. .1815- .2245
l.c.l., works lb. .2050- .2345
USP, gran., cryst., dms lb. .10 - .26

Copperas, cryst., gran., bgs., c.l., works ton.17.00 - —
l.c.l., works 100 lbs. 1.55 - 2.00
bbls., c.l., works ton.20.00 - —
bulk, c.l., works ton.14.00 - —

Copra, c.i.f., Atlantic, Gulf ports ton.190.00 - —
Pacific ports ton.185.00 - —

Coriander seed, Argentine, bgs., futures lb. .08½- .09
Italian, bgs. lb. .07 Nom.
Moroccan, bgs lb. .09½- .10

Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 5.49 - —
bbls., c.l., same basis 100 lbs. 5.55 - —
Syrup, 42°, bbls., c.l. 100 lbs. 5.37 - —
l.c.l. 100 lbs. 6.02 - —
Cornsilk, bls lb. .15 - .19

Corrosive sublimate, NF, cryst., dms., 50 lbs. or more lb. 1.68 - —
gran., powd., dms., 50 lbs. or more lb. 1.53 - —

Cottonroot bark, bls lb. .28 - .30

Cottonseed hull ash, 32-36% potash, bgs., dlvd., unit-ton. 1.75 - —
Meal, 41% protein, sacked, c.l., mills ton.62.00 -64.00

Coumarin, cns., 25 lb lb. 2.75 - —
smaller lots lb. 2.80 - 2.90
powd., cans lb. 3.00 - 3.05

Cramp bark, NF, bls lb. .80 Nom.

Cranesbill root, bls lb. .28 - .30

Cream of tartar, dom., NF, gran. or powd., bbls., 5,000 lbs. one ship lb. .29½- —
smaller lots lb. .30 - .31
imported, kgs lb. .24 - .26

Creosote, coaltar, crude, tanks, works, frt. equald gal. .14 - .18
refined, dms., c.l., works gal. .38½- —
l.c.l., same basis gal. .39 - —
tanks, same basis gal. .25 - —
solution, 80%, tanks, works gal. .20 - —
NF, beechwood, bots, cbys lb. 1.15 - 1.20
hardwood, bots, cbys lb. .85 - —
Pinewood, dms gal. .31 - .35
Carbonate, NF, bots., cbys lb. 2.35 - 2.40

Cresol, tech., dry, above 207°C. non-non-ret, dms., c.l. frt. equald. lb. .1255- —
l.c.l. same basis lb. .1285- —
ret.-dms., c.l., same basis. lb. .1225- —
l.c.l. same basis lb. .1255- —
tanks, same basis lb. .1125- —

USP, non-ret., dms., c.l., same basis lb. .1280- —
l.c.l., same basis lb. .1310- —
ret., dms., c.l., same basis lb. .1250- —
l.c.l., same basis lb. .1280- —
tanks, same basis lb. .1150- —

Crotonaldehyde, 91-93%, dms., c.l works lb. .16½- —
l.c.l., works lb. .17 - .20

Cryolite, nat., dealers, bgs., c.l., works 100 lbs.12.75 - —
bbls., l.c.l., works 100 lbs.13.75 - —

Cube root, powd., 5% rotenone, bgs., ton lots, works lb. .30 - —
extract liquid 1% rotenone, dms., works gal. 1.50 - —

Cubeb berries, XX NF bgs lb. .35 - .45
powd., cs. lb. .45 - .55
Culvers root, bbls lb. .50 - .60
Cumene, dms., c.l. lb. .08 - —
l.c.l. lb. .09 - —
tanks gal. .53 - .56
Cumin seed, Morocco, bgs lb. .16½- .17
Persian, bgs lb. .16½- .17
Syrian, bgs lb. .16½- .17
Cutch, extract, 59% tannin, bgs., ex dock lb. .06½- —

Cyanamide, fertilizer mixing grades, 20.6% N, gran., bulk, Niagara Falls, Ont., contracts, bulk unit-ton. 2.85 - —
pulv., 21% N., bgs., same basis unit-ton. 2.75 - —

Cyclohexane, tech., dms., c.l., works. lb. .09¼- .12½
l.c.l., works lb. .10 - .13
tanks, works lb. .08 - .11½

Cyclohexanol, tech., dms., c.l., works. lb. .21½- —
l.c.l., works lb. .22 - —
tanks, works lb. .20 - —

Cyclohexanone, tech., dms., c.l., works lb. .26½- .30
l.c.l., works lb. .27 - .31
tanks, works lb. .25 - .29
Cyclohexylamine, dms., works lb. .34 - —

Cyclopropane, USP, 2 lb. cyls, works, cyl.40.00 - —
6 oz. cyls., works cyl.10.50 - —
Hospitals, cyls., 40 gal. lots gal. .32 - —
100-gal. lots gal. .31 - —
200-gal. lots gal. .30 - —

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2, 4-D, bbls., c.l., works, frt. equald. lb. .43 - —
l.c.l., same basis lb. .48 - .55

Damiana leaves, bls lb. .40 - .45

Dandelion root, bls lb. .35 - .40

DDD, tech., fine grd., fib. dms., c.l., works lb. .51 - —
l.c.l., works lb. .51½- —
lump, fib. dms., c.l., works lb. .49 - —
l.c.l., works lb. .49½- —

DDT, fiber dms., c.l., works lb. .32 - —
smaller lots, works lb. .34 - .36

Decanol, normal, tech., dms., c.l., dlvd. lb. .24½- —
l.c.l., dlvd. lb. .26½- —
tanks, dlvd. lb. .23 - —

Deertongue leaves, bls lb. .20 - .35
Defluorinated phosphate, 65% b.p.l., paper bgs., works ton.44.15 -65.75
Rock, 14½%P, paper bgs., works ton.45.00 - —

Degras, common, bbls lb. .11 - .12
Neutral, less 2% ffa., bbls lb. .22 - .23
over 2% ffa., bbls lb. .21 - .22
Derris root, 5% rotenone, powd lb. .33 Nom.

Dextrin, corn, British gum, paper bgs., c.l. 100 lbs. 7.05 - —
Chicago 100 lbs. 6.40 - —
l.c.l. 100 lbs. 7.20 - —
canary, paper bgs., c.l. 100 lbs. 6.79 - —
Chicago 100 lbs. 6.14 - —
l.c.l. 100 lbs. 6.94 - —
dark, paper bgs., c.l. 100 lbs. 6.89 - —
Chicago 100 lbs. 6.24 - —
l.c.l. 100 lbs. 7.04 - —
white, paper bgs., c.l. 100 lbs. 6.64 - —
Chicago 100 lbs. 5.99 - —
l.c.l. 100 lbs. 6.79 - —
Corn dextrin in bgs., 17c. per 100 lbs. higher.
Potato, bgs lb. .11¼- .11¾
Tapioca, pure, envelope, bgs lb. .16 - .16½

Dextrose, USP, dms lb. .17¾- —

Diacetone (see Alcohol, diacetone).

Diacetyl, flavor grade, bots lb. 5.00 - 5.55
laboratory grade, bots. 100 grams. 4.50 - —
tech., bots., works lb. 3.00 - —

Diamyl ether (see Ether, amyl)
Phthalate, dms., c.l., dlvd. E lb. .35½- —
l.c.l., dlvd. E lb. .36½- —
tanks, dlvd. E lb. .34 - —

Diamylphenols, mixed, dms., c.l., works lb. .31 - —
l.c.l., works lb. .32 - —
tanks, works lb. .30 - —

Dianisidin, dms lb. 1.65 - —

Diatomaceous earth, dom., bgs., c.l., Atlantic coast ton.50.00 -52.00
California ton.38.00 -40.00
l.c.l., ex whse ton.50.00 - —
purified, bgs., c.l., Atl. coast ton.62.00 - —
California ton.50.00 - —
l.c.l., ex whse ton.90.00 - —
imported, Algerian, bgs., c.l., Atlantic coast ton. No prices.
Mexican, white, bgs., c.l., Atlantic coast lb. .03 - —
l.c.l., Atlantic coast lb. .06 - —

Dibenzyl sebacate, dms., c.l., works. lb. .66½- —
l.c.l., works lb. .67 - —
tanks, works lb. .65 - —

Dibutoxyethyl sebacate, dms., c.l., works lb. .55½- —
l.c.l. works lb. .56 - —
tanks, works lb. .54 - —

Dibutyl phthalate, dms., c.l., dlvd lb. .30½- —
l.c.l., dlvd lb. 31½- —
tanks, dlvd lb. .29 - —

Sebacate, dms., c.l., works lb. .51 - —
l.c.l., works lb. .51½- —
tanks, works lb. .49½- —

Tartrate, dms., works, frt. alld lb. .92 - 1.02

Dibutylamine, dms., c.l., frt. alld lb. .51½- .52½
l.c.l., frt. alld lb. .52½- .53½
tanks, frt. alld lb. .49 - .50

Dicapryl sebacate, dms., c.l., works. lb. .54½- —
l.c.l., works lb. .55 - —
tanks, works lb. .53 - —

Dichloroanilin, dms., works lb. .75 - .80

Dichlorodiphenyldichloroethane (see DDD).
Dichlorodiphenyltrichloroetnane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).

Dichlorophenol, dms., c.l., frt. equald lb. .27 - —
l.c.l., frt. equald lb. .28 - —

Dicyclohexylamine, dms., works lb. .38 - —

Dicyclohexylphthalate, fib. dms., c.l., works lb. .42½- —
l.c.l., same basis lb. .43 - —

Diethanolamine, dms., c.l., E lb. .26½- —
l.c.l., same basis lb. .27½- —
tanks, same basis lb. .25 - —

Diethyl carbonate, dms., c.l., frt. alld lb. .36½- —
l.c.l., same basis lb. .37½- —
tanks, same basis lb. .35 - —

Maleate, dms., c.l., dlvd lb. .50½- —
l.c.l., dlvd lb. .51½- —
tanks, dlvd lb. .50 - —

Oxalate, dms., c.l., frt. alld lb. .34½- .35½
l.c.l., same basis lb. .35½- .36½
tanks, same basis lb. .34 - —

Phthalate, dms., c.l., dlvd lb. .26 - .27½
l.c.l., dlvd lb. .27 - .28
tanks, dlvd lb. .24½- .26

Sulphate, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tanks, works lb. .13 - —

Diethylamine, dms., c.l., frt. alld lb. .66½- —
l.c.l., works lb. .67½- —
tanks, works lb. .65 - —

Diethylaminoethanol, dms., l.c.l., works, frt. alld. E. of Miss lb. .75 - —

Diethylanilin, dms. lb. .48 - —

Diethyleneglycol, dms., c.l., frt alld. E lb. .17¼- —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .16 - —

Diethylether, dms., l.c.l., works. lb. .40 - —

Monobutylether, dms., c.l., works. lb. .26 - —
l.c.l., works lb. .26½- —
tanks, works lb. .24½- —

Monobutylether acetate, dms., c.l., works lb. .27½- —
l.c.l., works lb. .28 - —

Monoethylether, dms., c.l., works. lb. .18 - —
l.c.l., works lb. .18½- —
tanks, works lb. .16½- —

Diethyleneglycol monoethylether, acetate, dms., c.l., works lb. .24 - —
l.c.l., works lb. .24½- —

Monomethylether, dms., c.l., works lb. .22 - —
l.c.l., works lb. .22½- —
tanks, works lb. .20½- —

Diethylenetriamine, dms., c.l., works. lb. .51½- —
l.c.l., works lb. .52 - —
tanks, works lb. .50 - —

Diethylstilbestrol, USP, bots kilo.260.00 -300.00

Digitalin, cryst., bots gram.15.00 -18.00
powd., bots oz.25.00 -30.00

Digitalis leaves, dms lb. .70 - .85

Digitoxin, USP, bots gram.15.00 - —

Diglycol laurate, dms lb. .34 - .36
Oleate, light, dms lb. .26 - .28
Stearate, dms lb. .27 - .29

Dihexyl sebacate, dms., c.l., works, lb. .42½- —
l.c.l., works lb. .43 - —
tanks, works lb. .41 - —

Dihydrostreptomycin hydrochloride and sulphate, hospitals, vials. gram. .50 - —
wholesalers, vials gram. .54 - —

Dihydroxydichlorodiphenylmethane, dms lb. .95 - 1.00
smaller containers lb. 1.05 - 1.40

Di-isobutyl ketone, dms., c.l. dlvd. lb. .14 - —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .12½- —

Di-isobutylene, dms., c.l., works lb. .07 - —
l.c.l., works lb. .07½- —
tanks, works lb. .05½- —

Di-isooctyl phtnalate, dms., c.l., dlvd. lb. .41½- —
l.c.l., same basis lb. .42½- —
tanks, same basis lb. .40 - —

Dillseed, natural, bgs lb. .11 - .11½
dewhiskered, bgs. lb. .12 - .12½

Dimethyl phthalate, dms., c.l., dlvd. lb. .26½- —
l.c.l., dlvd lb. .27 - —
tanks, dlvd lb. .25 - —
Sebacate, dms., c.l., works lb. .60½- —
l.c.l., works lb. .70 - —
tanks, works lb. .68 - —
Sulphate, 55-gal. ret., dms., c.l., works lb. .15 - —
l.c.l., works lb. .16 - —
10-gal. ret. dms., works lb. .16½ —

Dimethylamine, 25%-40%, dms., c.l., works, basis 100% lb. .37 - .38
l.c.l., works, basis 100% lb. .38 - .38½
tanks, works, basis 100% lb. .33 - —

Dimethylanilin, dms., c.l. lb. .23 - —
l.c.l. lb. .25 - —
tanks lb. .21 - —

Dinitroanilin, dms., frt. equald lb. .50 - —

Dinitrobenzene, crude, bbls lb. .16 - —

Dinitrochlorobenzene, 47%, m.p., c.l., dms lb. .13½- .14
l.c.l. lb. .14 - —
tanks lb. .13¼- —

Dinitrophenol, bbls. lb. .28 - —

Dinitrotoluene, oily, dms lb. .07 - .09
refd., dms. lb. .21 - —

Dinonylnapnthalene, c.l., dms., works lb. .13 - —
l.c.l., dms., works lb. .14 - —
tanks, works lb. .12 - —

Dioctyl phthalate, dms., c.l., frt. alld lb. .41½- —
l.c.l., frt. alld lb. .42½- —
tanks, frt. alld lb. .40 - —

Diorthotolylguanidin, dms., ton lots, dlvd lb. .48 - —
smaller lots, dlvd lb. .50 - —

Dioxan, dms., c.l., frt. alld lb. .25 - —
l.c.l., same basis lb. .25½- —
tanks, same basis lb. .23½- —

Dip oil (see Tar acid oil).

Dipentaerythritol, bgs., l.c.l., works lb. .34 - —

Dipentene, dest.-dist., dms. incl., c.l., works, South gal. .35 - .53
l.c.l., same basis gal. .36 - .55
N. Y. whse gal. .46 - —
tanks, works, South gal. .20 - —

steam-dist., dms., c.l., works, South gal. .36 - —
l.c.l., works, South gal. .46 - —
dlvd. N. Y gal. .52 - —

Diphenyl, bbls., c.l., works lb. .15 - —
l.c.l., works lb. .16 - .20
Oxide, perfume grade, cns., dms. lb. .43 - .48

Diphenylamine, bbls. lb. .26 - —

Diphenylguanidin, dms., ton lots lb. .39 - —
smaller lots lb. .40 - —

Diphenylhydantoin-sodium, USP, dms. lb. 3.50 - 3.75

Dipropyleneglycol, dms., c.l., frt. alld lb. .14½- —
l.c.l., same basis lb. .15½- —
tanks, same basis lb. .13 - —

Dipropyleneglycol methylether, dms., c.l., frt. equald lb. .18 - —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .16½- —

Ditertiarybutylmetacresol, dms., c.l., works lb. .32 - —
l.c.l., works lb. .33 - —
tanks, works lb. .31 - —

Ditertiarybutylparacresol, dms., c.l., works lb. .94 - —
l.c.l., works lb. .95 - —

Divi-divi, 43% tannin, bgs., bls., c.l., U. S. ports, ex dock ton.68.00 - —

Divinylbenzene, 18%, dms., c.l., works lb. .25 - —
l.c.l., works lb. .26 - —
tanks, works lb. .24 - —
40%, dms., c.l., works lb. .55 - —
l.c.l., works lb. .60 - .65

Dodecyltoluene, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tanks, works lb. .13 - —

Doggrass root, dom., cut, bls lb. .20 - .24
imp., NF, cut, bls lb. .25 - .30

Dogwood, Jamaica, bark, bls lb. .10 - .14

Dragon's blood, drops, cs lb. .45 - .47
mass, cs lb. 1.10 - 1.25
reeds, cs lb. 1.75 - 2.00

Dyes, coaltar, certified colors for food, drugs and cosmetics, 5-lb. and 1-lb. lots:—

Blue, FD&C, No. 1, cns.	lb.	17.00	-17.60
No. 2, cns.	lb.	17.00	-17.60
Green, FD&C, No. 1, cns.	lb.	17.00	-17.60
No. 2, cns.	lb.	22.20	-22.85
No. 3, cns.	lb.	35.25	-35.90
Orange, FD&C, No. 1, cns.	lb.	3.65	- 3.75
No. 2, cns.	lb.	4.55	- 4.75
Red, FD&C, No. 1, cns.	lb.	7.35	- 7.85
No. 2, cns.	lb.	4.00	- 4.10
No. 3, cns.	lb.	22.20	-22.85
No. 4, cns.	lb.	7.20	- 7.50
No. 32, cns.	lb.	5.30	- 5.40
Yellow, FD&C, No. 1, cns.	lb.	10.50	-11.05
No. 3, cns.	lb.	3.30	- 3.40
No. 4, cns.	lb.	3.30	- 3.40
No. 5, cns.	lb.	4.00	- 4.10
No. 6, cns.	lb.	4.00	- 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots:—

Black, D&C, No. 1, cns.	lb.	10.95	- —
Blue, D&C, No. 4, cns.	lb.	13.55	- —
Brown, D&C, No. 1, cns.	lb.	16.10	- —
Green, D&C, No. 5, cns.	lb.	16.10	- —
No. 6, cns.	lb.	16.10	- —
No. 7, cns.	lb.	14.80	- —
Orange, D&C, No. 3, cns.	lb.	10.95	- —
No. 4, cns.	lb.	20.05	- —
No. 5, cns.	lb.	5.70	- —
No. 10, cns.	lb.	20.70	- —
Red, D&C, No. 8, cns.	lb.	3.75	- —
No. 9, cns.	lb.	3.75	- —
No. 10, cns.	lb.	3.00	- —
No. 11, cns.	lb.	2.25	- —
No. 12, cns.	lb.	3.00	- —
No. 17, cns.	lb.	10.95	- —
No. 18, cns.	lb.	24.00	- —
No. 21, cns.	lb.	4.70	- —
No. 22, cns.	lb.	10.95	- —
No. 28, cns.	lb.	24.65	- —
No. 33, cns.	lb.	17.45	- —
Violet, D&C, No. 1, cns.	lb.	16.10	- —
No. 2, cns.	lb.	16.10	- —
Yellow, D&C, No. 7, cns.	lb.	10.95	- —
No. 8, cns.	lb.	10.95	- —
No. 10, cns.	lb.	13.50	- —
No. 11, cns.	lb.	13.50	- —
No. 22, cns.	lb.	9.15	- —
No. 33, cns.	lb.	14.65	- —
No. 37, cns.	lb.	12.55	- —

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots:—

Green, Ext. D&C, No. 1, cns.	lb.	16.10	- —
Red, Ext. D&C, No. 1, cns.	lb.	13.50	- —
Yellow, Ext. D&C, No. 1, cns.	lb.	10.95	- —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).

20 Chrysodine G.	lb.	.59	- —
27 Orange G.	lb.	.71	- —
31 Amido naphthol red G.	lb.	.58	- —
36 Alizarine yellow 2G	lb.	.76	- —
40 Alizarine yellow R	lb.	.97	- —
57 Amido naphthol red 6B	lb.	.90	- —
79 Ponceau R	lb.	.68	- —
151 Orange II	lb.	.44	- —
165 Red lake C	lb.	1.05	- —
176 Red lake A	lb.	.80	- —
179 Azo rubine	lb.	.95	- —
180 Diamond blue 3B	lb.	.84	- —
185 Cochineal red A	lb.	.85	- —
202 Chrome blue black R	lb.	.62	- —
203 Chrome black T	lb.	.72	- —
208 Sulphon acid blue R	lb.	.83	- —

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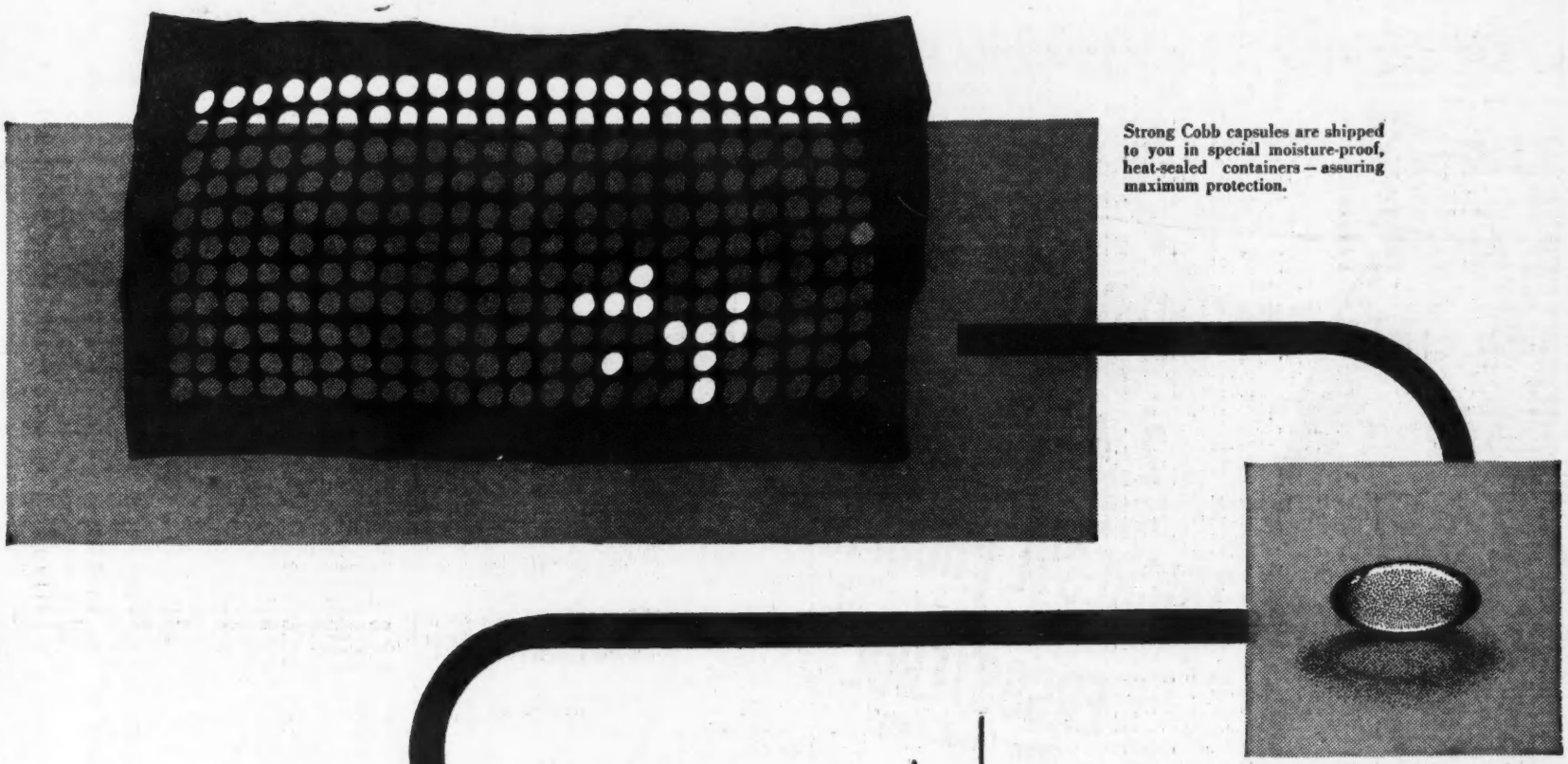

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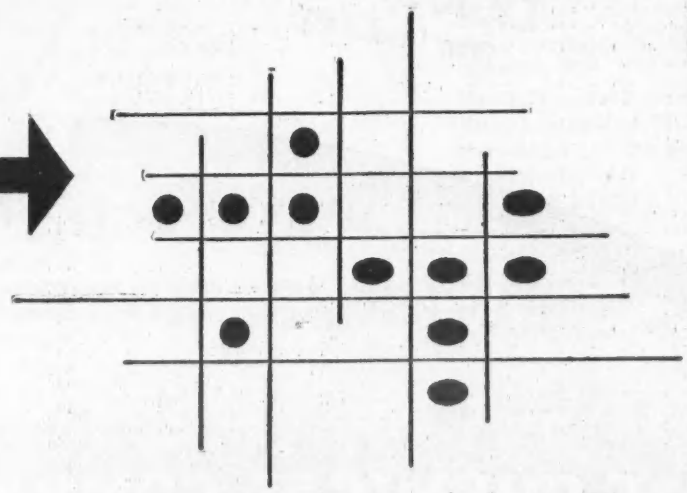

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Unexcelled Laboratory and Plant Control
Accurate Individual Dosage
Positive Fill

SIZES IMMEDIATELY AVAILABLE

3 Minim Oval
3 Minim Round
3½ Minim Round
4 Minim Round
5 Minim Round
5 Minim Oval
6 Minim Oval
7½ Minim Oval
#11 Oblong

Write for samples of our beautiful, pharmaceutically elegant capsules.

Dyes, Coaltar, General Use—Euphorbia

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).

216	Acid alizarin red B	lb.	.77	—
234	Resorcin brown	lb.	.82	—
246	Naphthol blue black	lb.	.78	—
278	Benzo fast red SBL	lb.	2.74	—
289	Sulphon cyanine 5R extra	lb.	1.00	—
299	Diamond black F	lb.	1.78	—
304	Nerol 2B	lb.	1.84	—
326	Benzo fast orange S	lb.	1.45	—
332	Bismarck brown R	lb.	.78	—
365	Chrysophenine	lb.	2.14	—
382	Diamine black BH	lb.	1.51	—
401	Diamine black BH	lb.	.58	—
406	Benzo blue 2B conc	lb.	98	—
419	Diamine fast red F	lb.	1.05	—
420	Diamine brown M	lb.	.52	—
448	Benzo purpurine 4B	lb.	1.08	—
518	Diamine sky blue FF	lb.	1.48	—
561	Trisulphon brown B	lb.	1.78	—
581	Direct deep black EW extra	lb.	.81	—
593	Diamine green B	lb.	.60	—
598	Congo brown G	lb.	1.20	—
620	Sun yellow	lb.	.84	—
639	Xylene light yellow	lb.	1.77	—
640	Tartrazine	lb.	1.34	—
655	Auramine	lb.	1.69	—
657	Malachite green	lb.	1.93	—
662	Brilliant green	lb.	2.55	—
667	Brilliant milling green B	lb.	3.27	—
671	Glaucine	lb.	1.54	—
680	Methyl violet B	lb.	.95	—
681	Crystal violet	lb.	1.91	—
698	Formyl violet S4B	lb.	1.51	—
720	Chrome azurol B	lb.	3.60	—
729	Victoria blue B	lb.	2.48	- 2.68
737	Wool green S	lb.	2.14	—
749	Rhodamine B	lb	3.85	—
814	Chloramine yellow	lb.	2.76	—

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).

841	Safranine	lb.	2.58	—
865	Nigrosine WSJ 78	lb.	.56	—
922	Methylene blue GXX	lb.	1.28	—
969	Hydron blue R	lb.	.72	—
978	Sulphur black T extra	lb.	.28½-	—
1027	Alizarin VI	lb.	.64	—
1034	Alizarin red S	lb	2.30	—
1054	Alizarin saphiro B	lb.	2.59	—
1078	Alizarin cyanine green	lb.	2.61	—
1085	Alizarin blue black B	lb	2.13	—
1096	Indanthrene golden orange G, single paste	lb	1.98	—
	double paste	lb.	3.92	—
1099	Indanthrene dark blue BO, single paste	lb.	1.72	—
1101	Caledon jade green	lb.	2.32	—
1106	Indanthrene blue RS, double paste	lb.	2.52	—
1113	Indanthrene blue GCD, double paste	lb.	1.72	—
1150	Indanthrene olive R, single paste	lb.	1.08	—
1151	Indanthrene brown R, single paste	lb.	1.65	—
	double paste	lb.	3.29	—
1212	Indanthrene red violet RH, single paste	lb.	1.54	—
1217	Helindon orange R, single paste	lb.	1.57	—
p-4	Acid anthracine brown P.G.	lb.	2.48	—
p-14	Anthracene chromate brown EB	lb.	1.25	—
p-24	Benzo fast black L	lb.	1.94	—
p-80	Diazo brilliant scarlet ROA	lb.	2.55	—
p-202	Zambesi black V	lb.	.97	—
p-244	Celliton scarlet B	lb.	1.25	—
p-313	Naphthol AS-SW	lb.	2.74	—

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.

	Black, blue, No. 550	lb.	.72	—
	Jet, No. 551	lb.	.79	—
	Brown, R, conc	lb.	1.44	—
	Orange R, brilliant	lb.	.80	—
	Red 4 B, conc	lb.	1.22	—
	Yellow, C	lb.	1.05	—
	FN, conc	lb.	1.08	—

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms., sellers' works.

	Auramine, O	lb.	1.66	—
	Black, basic, blue	lb.	1.08	—
	Jet	lb.	1.08	—
	Blue, methylene, 2 B, conc	lb.	1.44	—
	Brown, Bismarck, R, conc	lb.	.78	—
	Chrysodine, R, extra	lb.	.54	—
	Y, extra	lb.	.58	—
	Fuchsine, conc	lb.	2.84	—
	Green, malachite, conc	lb.	1.80	—
	Rhodamine, B	lb.	3.97	—
	Safranine, Y, conc	lb.	2.66	—
	Violet, methyl, B	lb.	1.08	—

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works.

	Black, acid blue, B extra	lb.	76	—
	Orange, acid, Y, conc	lb.	.43	—
	Rhodamine, azo- R, extra, conc.			
	Rhodamine, R, extra, conc	lb.	3.97	—
	Scarlet, croceine, MOO	lb.	1.33	—
	Yellow, azo-, conc	lb.	.32	—
	Fast light, 3 G, extra	lb.	1.99	—
	Methanil, conc	lb.	.53	—

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

	Echinacea root, bls	lb.	.45	.55
	Egg albumen (see Albumen).			
	Yolk, dried, dom., bbls	lb.	1.35	- 1.45
	tanners, bbls	lb.	.06½-	.07
	Elder flowers, bright, bls	lb.	.40	.50
	Elecampane root, bls	lb.	.22	.25
	Elm bark, grinding, bls	lb.	.30	.35
	powd., bbls., bxs	lb.	.40	.45
	select, bndls	lb.	.55	.60
	Emetine hydrochloride, USP, bots	oz.	38.75	-42.00
	Ephedra herb, bls	lb.	.25	.33
	Ephedrine, synthetic, USP, anhydrous, bots., 100 ozs	oz.	.98	—
	hydrous, bots., 100 ozs	oz.	.92	—
	Hydrochloride, tin, 100 ozs	oz.	.75	—
	Sulphate, cryst., tins, 100 ozs.	oz.	.72	—
	powd., tins, 100 ozs	oz.	.73	—
	Epichlorohydrin, dms., c.l., works	lb.	.36½-	—
	l.c.l., works	lb.	.37	—
	tanks, works	lb.	.35	—
	Epinephrine, synth., USP, bots gram.		.45	.50
	Epsom salt, tech., bgs., c.l., works, 100 lbs.		2.15	—
	l.c.l., works	100 lbs.	2.90	3.15
	USP, cryst., bgs., c.l., works 100 lbs.		2.35	—
	l.c.l., 5,000 lbs., 1 withdrawal	100 lbs.	3.10	—
	smaller lots	100 lbs.	3.35	—
	Ergot, NF, dms., tin-lined	lb.	3.25	Nom.
	Eserine, bots.	oz.	45.0	-50.00
	Salicylate, USP, bots	oz.	50.00	-51.00
	Sulphate, bots.	oz.	35.00	-36.00
	Ether, acetate (see Ethyl acetate).			
	Butyl, dms., c.l., dlvd	lb.	.30½-	—
	l.c.l., dlvd	lb.	.31	—
	tanks, dlvd	lb.	.29	—
	Butyric (see Ethyl butyrate).			
	Dichloroethyl, purif., dms., works	lb.	.16½-	—
	l.c.l., same basis	lb.	.17	—
	tanks, same basis	lb.	.15	—
	Divinyl, USP, anesthesia, bots., 50 cc, hospitals	bot.	1.00	—
	75 cc, hospitals	bot.	1.56	—
	Ethyl, absolute, ACS, dms	lb.	.30	—
	anesthesia, USP, hospital, cns.	lb.	75	.90
	Industrial, USP, dms., c.l., dlvd.	lb.	.10½-	—
	l.c.l., same basis	lb.	.12½-	—
	tanks, same basis	lb.	.08½-	—
	Isopropyl, dms., c.l., dlvd	lb.	.06	—
	l.c.l., dlvd	lb.	.06½-	—
	tanks, dlvd	lb.	.04½-	—
	Nitrous, conc., bots., 100 lbs	lb.	1.03	1.10
	synthetic, dms., incl., dlvd. East,	lb.	.10½-	—
	l.c.l., same basis	lb.	.12½-	—
	tanks, same basis	lb.	.08½-	—
	Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld.	lb.	.10½-	—
	l.c.l., frt. alld	lb.	.11½-	—
	tanks, frt. alld	lb.	.09	—
	95-98%, dms., c.l., frt. alld.	lb.	.10¾-	—
	l.c.l., frt. alld	lb.	.11¾-	—
	tanks, frt. alld	lb.	.09¼-	—
	99%, dms., c.l., frt. alld.	lb.	.11	—
	l.c.l., frt. alld	lb.	.12	—
	tanks, frt. alld	lb.	.09¼-	—
	synthetic, 85-90%, dms., c.l., frt. alld	lb.	.10½-	—
	l.c.l., frt. alld	lb.	.11½-	—
	tanks, frt. alld	lb.	.09	—
	95-98%, dms., c.l., frt. alld.	lb.	.10¾-	—
	l.c.l., frt. alld	lb.	.11¾-	—
	tanks, frt. alld	lb.	.09¼-	—
	99%, dms., c.l., frt. alld	lb.	.11	—
	l.c.l., frt. alld	lb.	.12	—
	tanks, frt. alld	lb.	.09	—
	Acetoacetate, dms., c.l., dlvd	lb.	.47½-	—
	l.c.l., dlvd.	lb.	.48½-	—
	tanks, dlvd	lb.	.46	—
	Benzoate, dms	lb.	.63	—
	Betaethoxypropionate dms. works	lb.	70	—
	Bromide, tech., 98%, dms	lb.	.39	- .41
	Butyrate, bots.	gal.	4.75	—
	cns., works	lb.	65	.70
	dms., works	lb	60	—
	Carbamate (see Urethane)			
	Chloride, tech., tanks, frt. alld. East	lb.	.13½-	—
	USP, bbls., cyl	lb.	.20	.22
	Cinnamate, cns	lb.	2.30	3.60
	Formate, dms	lb.	.38	—
	Iodide, bots	lb.	4.08	4.27
	Lactate, dms., works	lb.	.41	—
	Methycrylate, M-2, dms., works	lb.	.60	—
	cns., works	lb.	.63	.67
	P-2, cns., works	lb.	.65	—
	Myristate, dms., works	lb.	No prices.	
	Nitrite (see Ether, nitrous).			
	Oenanthate, dms	lb.	1.00	2.00
	Oleate, dms., l.c.l., works	lb.	.53	—
	Oxalate (see Diethyl oxalate).			
	Silicate, dist. (see Tetraethyl-orthosilicate)			
	40% available SiO_2, dms., works	lb	.55	—
	Ethylalphanaphthylamine, dms	lb.	.80	—
	Ethylanilin, dms	lb.	.60	—
	Ethylbenzene, dms., c.l	lb.	.14	—
	l.c.l.	lb.	.15	—
	tanks	lb.	.13	—
	Ethylcellulose, fib dms., 5,000 lbs., works	lb.	.52	—
	smaller lots, works	lb.	.54	.62
	Ethylene dichloride, dms., c.l., works, frt. alld. E. of Rockies	lb.	.09½-	—
	W. of Rockies	lb.	.10½-	—
	l.c.l. works, frt. alld., E. of Rockies	lb.	.10½-	—
	W of Rockies	lb.	.11½-	—
	tanks, frt. alld. E. Rockies	lb.	.08	—
	W. of Rockies	lb.	.09	—
	Oxide, cyls., c.l., works	lb.	.23¾-	.25
	l.c.l., works	lb.	.24¾-	.26
	tanks, works and frt. equald. or alld	lb.	.15¾-	.16¾
	Trichloride (see Trichloroethane).			
	Ethylenediamine, tanks, works	lb.	.50	—
	Ethyleneglycol, dms., c.l., frt. alld. E	lb.	.16	—
	l.c.l., same basis	lb.	.17	—
	tanks, same basis	lb.	.14½-	—
	Diethylether, dms., l.c.l., works	lb.	.50	—
	Monobutylether, dms., c.l., works.	lb.	.21½-	—
	l.c.l., works	lb.	.22	—
	tanks, works	lb.	.20	—
	Monoethylether, dms., c.l., works.	lb.	.18	—
	l.c.l., works	lb.	.18½-	—
	tanks, works	lb.	.16½-	—
	Monoethylether acetate, dms., c.l., works	lb.	.16½-	—
	l.c.l., works	lb.	.17	—
	tanks, works	lb.	.15	—
	Monomethylether, dms., c.l., works	lb.	.19½-	—
	l.c.l., works	lb.	.20	—
	tanks, works	lb.	.18	—
	Monomethylether acetate, dms., c.l., works	lb.	.24½-	—
	l.c.l., works	lb.	.25	—
	tanks, works	lb.	.23	—
	Monostearate, dms	lb.	.38	.40
	Ethylethanolamines, mixed, dms., c.l., works	lb.	.32	—
	l.c.l., works	lb.	.33	—
	Ethylmorphine hydrochloride, USP, bots	oz.	11.85	—
	Ethylorthotoluidine, bbls.	lb.	.80	—
	Ethylvanillin, cns., 3 lbs. or more	lb.	6.75	—
	smaller lots	lb.	6.80	6.90
	Eucalyptol, USP, cns., dms	lb.	1.75	2.05
	Eucalyptus leaves, bls	lb.	10	14
	Eugenol, prime, USP	lb.	2.05	2.75
	Euphorbia, pil., herb., bls	lb.	.18	.20

MONTROSE MONTROSE MONTROSE

TROSE MONTROSE MONTROSE MONT

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DDT Government Specifications

2, 4-D Acid, Salt and Isopropyl Ester

TRICRESYL PHOSPHATE

ERGOSTEROL (Non Irradiated)

MONTROSE CHEMICAL COMPANY

LISTER AVENUE, NEWARK, NEW JERSEY

SELLING AGENTS R. W. GREEFF & CO., INC. 10 ROCKEFELLER PLAZA, NEW YORK, N. Y. TRIBUNE TOWER, CHICAGO, ILLINOIS

F

Feldspar, enamel, 100 mesh, bgs., works ..ton.20.00 -22.00
Glass, 20 mesh, bulk, tons, works ..ton.11.75 -12.50
Pottery, bgs., 3 ton lots, works. ton.20.00 -22.00
bulk, c.l., works .....ton.18.00 -20.00
Fennel seed, Argentine, bgs....lb. .16 .16½
French, bgs .....lb. .12 .12½
Indian, bgs., futures.....lb. .11¾- .12
Fenugreek, domestic, bgs. .....lb. No stocks.
Indian, bgs .....lb. .11 - .11½
futures, bgs. .....lb. .12 - .13
Moroccan, bgs.....lb. .07½- .08
Ferric-ammonium citrate (see iron-amnionium citrate).
Ferric cacodylate (see iron cacodylate).
Ferric glycerophosphate (see iron glycerophosphate).
Ferric hypophosphite (see iron hypophosphite).
Ferric sulphate (see iron sulphate, ferric).
Film scrap, colored, cs., works .lb. .11 -
water-white, cs., works.....lb. .13 -
Fir balsam, Canada, cns.....gal.26.00 -32.50
Oregon, bbls.....gal. 2.33 2.45
Fishberries, bgs .....lb. .20 .25
Fishliver oil (see Oil, fishliver).
Fishmeal, ground, 60% protein, bgs., Balto. area..ton.175.00 - -
Fishscrap, dried, 60% protein, bulk, Balto. area..ton.165.00 - -
Fleaseed (see Psyllium seed).
Fringetree bark, bls.....lb. .42 - .45
Fluorspar, acid grade, bgs., c.i., mines..ton.47.50 - -
l.c.l., mines.....ton.49.50 - -
bulk, contract, c.l., mines.ton.42.00 - -
noncontract, c.l., mines.ton.45.00 - -
l.c.l., mines.....ton.47.00 - -
ceramic grade, No. 1, ground, 90-92% CaF_2, bulk, c.l., mines..net ton.39.00 -41.00
powd., 90-92% .....ton.41.00 -
foundry grade, lump, 55-60%, ton.34.00 -
washed, gravel, 70% or more, CaF_2, bulk, c.l., mines.ton.35.00 -37.00
65%, bulk, c.l., mines.....ton.34.00 -36.00
60%, bulk, c.l., mines.....ton.33.00 -35.00
less than 60%, bulk, c.l., mines. ton.32.00 -34.00
Formaldehyde, USP (inhibited), dms., c.l., E. works .lb. .0570- -
l.c.l., E. works.....lb. .0620- -
tanks, E. works.....lb. .0370- -
methanol-free (uninhibited), tanks, works..lb. .0350- -

Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware. In states other than Eastern Seaboard, as well as W. of Rockies, prices f.o.b. Texas plants, are .022 for inhibited and .020 for uninhibited.

Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines..ton.30.00 - -
Tex., mines.....ton.27.00 - -
spent, bulk, Bayonne.....ton. 2.00 - 4.00
Imp., bgs., c.l. .....ton.30.00 -40.00
Furfural, tech., dms., c.l., works lb. .12 -
l.c.l., works.....lb. .14 - -
tanks, works .....lb. .09½- -
Fusel oil, refined, dms., c.l., dlvd..lb. .21½- -
l.c.l., dlvd. .....lb. .22½- -
tanks, dlvd. .....lb. .20 - -
Fustic extract, cryst., No. 1, bbls., l.c.l. lb. .42½- -
No. 1A, bbls., l.c.l.....lb. .41½- -
No. 2, bbls., l.c.l.....lb. .40½- -
No. 3, bbls., l.c.l.....lb. .38½- -
liquid, No. 0, bbls., l.c.l.....lb. .22 - -
No. 1, bbls., l.c.l.....lb. .20½- -
No. 2, bbls., l.c.l.....lb. .19½- -
No. 3, bbls., l.c.l.....lb. .17 - -
solid, No. 1, bxs., l.c.l.....lb. .23 -

G

G salt, bbls.....lb. .59 - .60
Galangal root, bls .....lb. .15 - .18
Gambier, plantation, bgs., ex dock.lb. No stocks.
Extract, bbls..... No stocks.
Gammapicoline, 95%, dms., c.l., works..lb. 1.00 - 1.05
Gasoline, at refinery, ex tax, Arkansas, 80 octane, tanks.. gal. .10125- -
Bayonne, 83 octane, tanks.gal. .1075- -
Gulf coast, 80 octane, tanks.. gal. .10 - .11
Group 3, 80 octane, tanks .. gal. .0975- .10375
Pennsylvania, western, U. S. motor, 74-76 octane, leaded tanks..gal. .12 - -
natural, 26-70 octane, group 3, tanks..gal. .05875- -
Gelatin, silver label, cs., works .lb. 1.20 - -
Geisemium root, bls.....lb. .25 - .30
Gentian root, bls.....lb. .13 - .17
grd., bbls., bxs.....lb. .17 - .18
powd., bbls., bxs.....lb. .18 - .21
Gentistic acid ethanilamide, fib. dms., works..lb.10.00 - -
Geraniol, extra, cns., dms.....lb. 2.50 - 2.75
prime .....lb. 2.20 - 2.40
Geranyl acetate, cns. .....lb. 2.65 - 3.90
Ginger, oleoresin, bots.....lb. 7.40 -11.80
Root, African, bls.....lb. .43 - .44
Cochin, bleached, bgs.....lb. No stocks.
unbleached, bgs.....lb. .20 Nom.
Jamaica, No. 1, bgs.....lb. .50 - .51
No. 2, bgs.....lb. .47 - .48
No. 3, bgs.....lb. .46 - .47
Rhattoon, bgs.....lb. .39½ Nom.
Ginseng root, cs .....lb.12.00 -16.00
Glauber's salt, anhyd. (see Sodium sulphate), cryst., bgs., c.l., works..100 lbs. 2.00 - -
l.c.l. bgs., works .....100 lbs. 2.25 - 2.50
Glue, bone, calcium type, 24 millipoise, 40 jellygrams, bgs., c.l., East of Midwest..lb. .17 - -
65 jellygrams, bgs., c.l., same basis..lb. .18½- -
80 jellygrams, bgs., c.l., same basis..lb. .20 - -
110 jellygrams, bgs., c.l., same basis..lb. .21 - -
130 jellygrams, bgs., c.l., same basis..lb. .22 - -
Over 150 jellygrams, bgs., c.l., same basis..lb. .24 - -
Bone glue, l.c.l., 1c. per lb. higher than c.l. ground, 65 jellygrams, bgs., c.l. (50,000 lbs.), dlvd..lb. .18 - -
l.c.l., same basis.....lb. .20 - -
Hide, 100-121 (jellygrams), bgs., c.l., dlvd..lb. .22 - .25
122-149, bgs., c.l., dlvd.....lb. .23 - .26
150-177, bgs., c.l., dlvd.....lb. .24 - .27
178-206, bgs., c.l., dlvd.....lb. .25 - .29
207-236, bgs., c.l., dlvd.....lb. .26 - .30
237-266, bgs., c.l., dlvd.....lb. .27 - .31
267-296, bgs., c.l., dlvd.....lb. .28 - .32
299-330 bgs., c.l., dlvd.....lb. .29 - .33
331-362, bgs., c.l., dlvd.....lb. .30 - .33
363-394, bgs., c.l., dlvd.....lb. .31 - .34
395-427, bgs., c.l., dlvd.....lb. .32 - .35
428-460, bgs., c.l., dlvd.....lb. .33 - .36½
461-494, bgs., c.l., dlvd.....lb. .34 - .38
495-529, bgs., c.l., dlvd.....lb. .35 - .39

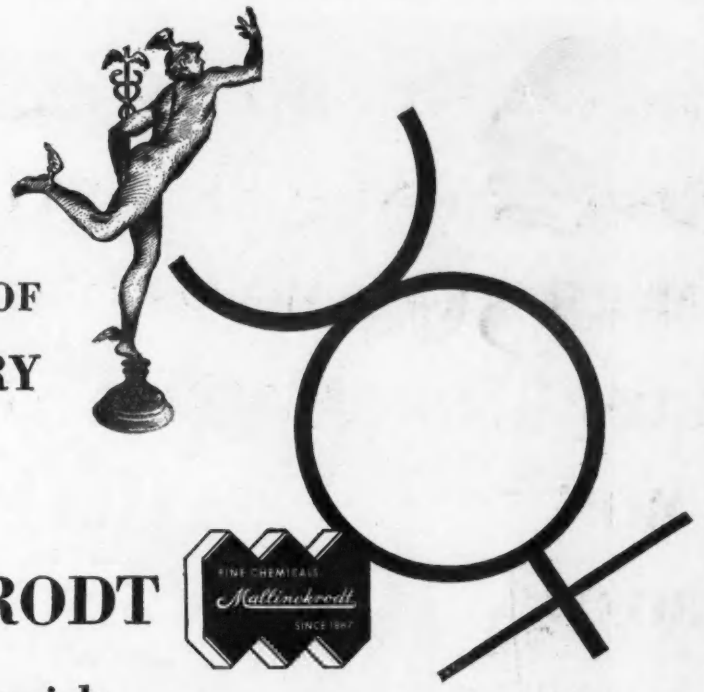
Hide glue, l.c.l., prices 1c. higher than c.l.; bbls., ½c. more than bgs.

Glycerin, crude, saponification, 83%, to refiners, tanks, dlvd..lb. .16¾- .18¼
soaplye, 80%, tanks, dlvd...lb. .15¼- .16½
dynamite, dms., c.l., dlvd.....lb. .24 - -
l.c.l., dlvd.....lb. .24½- -
tanks, dlvd .....lb. .23½- -
high gravity, dms., c.l., dlvd....lb. .24¼- -
l.c.l., dlvd.....lb. .24¾- -
tanks, dlvd .....lb. .23¾- -
refined, BP, 93%, dms., c.l., dlvd. lb. .25½- -
l.c.l., dlvd.....lb. .26 - -
tanks, dlvd .....lb. .25 - -
USP, c.p., 95%, dms., c.l., dlvd. lb. .24¾- -
l.c.l., dlvd.....lb. .25¼- -
tanks, dlvd.....lb. .24¼- -
yellow, distilled, dms., c.l., dlvd lb. .24½- -
lb. .24½- -
l.c.l., dlvd lb. .24⅝- -
Glycine USP (see Acid, aminoacetic).
Glycol boriborate, dms.....lb. .28 - .30
tanks, dlvd .....lb. .23¾- -
Glyoxal, 30%, dms., c.l., works lb. .17½- -
l.c.l., works .....lb. .18 - -
tanks, works .....lb 17 -
Gold chloride, acid-brown, bots...oz.22.00 -22.25
acid-yellow, bots .....oz.20.00 -20.25
Gold of pleasure seed, bgs.....lb. 40 41
Goldenseal root, bls.....lb. 3.25 - 3.40
powd. bxs. .....lb. 4.25 - 4.50
Gold-sodium chloride, photo, bots oz.13.50 -14.00
USP IX, bots .....oz.14.50 -15.00
Grains of paradise, bgs.....lb. .52 - .53
Graphite, imported, amorph., powd., bgs., dlvd..lb. No prices.
crystalline, 88-90%, powd., bgs., ex whse..lb. No prices.
90-92%, powd., bgs., ex whse. lb. No prices.
97%, powd., bgs., ex whse..lb. No prices.
flake, No. 1, 90-95%, bgs., c.l.s., ex whse..lb. No prices.
No. 2 whse .....lb. No prices.
Grease, house, loose, dlvd.....lb. .04¼- -
White, choice, loose.....lb. .06½- -
Wool (see Degras and Lanolin).
Yellow, loose.....lb. .05 - -
Green, brilliant, thioflavin, toner, molybdic, kgs., works..lb. 4.23 - 4.50
Tungstic, kgs.,works .....lb. 4.25 - 4.50
16-20%, bbls., same basis. lb. .38½- -
Chrome, CP, dark, ngut, medium, blue content up to 5%, bbls., dlvd., N. of Tenn. and N. C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis .lb. .37 - -
6-10%, bbls., same basis . lb. .38 - -
11-15%, bbls., same basis . lb. .39 - -
21-25%, bbls., same basis. lb. .39¼- -
26-30%, bbls., same basis . lb. .39¾- -
31-35%, bbls., same basis . lb. .41¾- -
36-40%, bbls., same basis . lb. .43¼- -
41-45%, bbls., same basis . lb. .45 - -
46-50%, bbls., same basis . lb. .46¾- -
50% and over, bbls., same lb. .47¾- -
reduced color, 5%, bbls., same basis..lb. .13 - -
6-10%, bbls., same basis . lb. .13¾- -
11-13%, bbls., same basis . lb. .14¼- -
14-16%, bbls., same basis . lb. .15 - -

Feldspar—Green, Chrome, Reduced

Green, chrome, reduced color, 17-19%, bbls., same basis.. lb. .15¼- -
20-21%, bbls., same basis.. lb. .15½- -
22-23%, bbls., same basis .. lb. .15¾ -
24-25%, bbls., same basis .. lb. .15¾- -
26-27%, bbls., same basis . lb. .16¼- -
28-29%, bbls., same basis .. lb. .16¾- -
30-31%, bbls., same basis . lb. .17¾- -
32-33%, bbls., same basis . lb. .19 - -
34-35%, bbls., same basis .. lb. .20 - -
36-40%, bbls., same basis. lb. .22¾- -
41-45%, bbls., same basis .. lb. .25 - -
46-50%, bbls., same basis lb. .26½- -
51-55%, bbls., same basis lb. .26¼- -
56-60%, bbls., same basis .. lb. .26¾- -
61-65%, bbls., same basis .. lb. .27¾- -
66-70%, bbls., same basis .. lb. .29 - -

Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.



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Mallinckrodt Mercurials

CALO-CLOR®
CALOGREEN®
Cinnabar (Mercury Sulfide Red)
Mercurial Ointment Strong USP XIII
Mercurial Ointment Mild USP XIII 10% (Blue Ointment)
Mercurial Ointment Mild USP XI 30%
Mercuric Acetate
Mercuric Acetate A. R.
Mercuric Bromide A. R. (ACS)
Mercuric Chloride N. F. VIII Crystals
Mercuric Chloride N. F. VIII Granular (Mercury Bichloride) (Corrosive Sublimate)
Mercuric Chloride N. F. VIII Powder 80 Mesh
Mercuric Chloride A. R. (Gran) (ACS)
Mercuric Cyanide A. R.
Mercuric Cyanide N. F. VIII
Mercuric Iodide Red N. F. VIII
Mercuric Iodide Red A. R.
Mercuric Nitrate Granulated
Mercuric Nitrate A. R.
Mercuric Nitrate Ointment N. F. VIII (Citrine Ointment)
Mercuric Oxide Red, Technical
Mercuric Oxide Red N. F. VIII
Mercuric Oxide Red N. F. VIII Powder
Mercuric Oxide Red A. R.
Mercuric Oxide Yellow, Technical
Mercuric Oxide Yellow USP XIII
Mercuric Oxide Yellow A. R. (ACS)
Mercuric Salicylate N. F. VIII
Mercuric Sulfate Purified Granulated
Mercuric Sulfate A. R.
Mercurous Chloride Mild USP XIII (Calomel)
Mercurous Chloride Mild USP XIII (Precipitated Calomel)
Mercurous Chloride A. R. (ACS) (Powd)
Mercurous Iodide Yellow N. F. VIII
Mercurous Nitrate Crystals
Mercurous Nitrate A. R. (Cryst)
Mercurous Sulfate A. R.
Mercury Distilled
Mercury USP XIII Redistilled
Mercury A. R. (ACS)
Mercury Brilliant (Precision Tube Grade)
Mercury Ammoniated USP XIII Powdered
Mercury Mass N. F. VIII (Blue Mass)
Mercury Mass Dry Powder
Mercury (ic) Oleate USP XIII
Mercury with Chalk N. F. VIII
Mixture Corrosive Sublimate and Acid Citric
Mixture Corrosive Sublimate and Ammonium Chloride
Potassium Mercuric Iodide
Pyridylmercuric Acetate Technical
Pyridylmercuric Chloride Technical
Pyridylmercuric Stearate Technical
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SUSPENSION CALO-CLOR®
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Green, Chromium Oxide—Ionone

Green, chromium oxide, hydrated, bbls., works lb. .75 - 1.00
pure, bgs., frt. alld lb. .43 .49
Dyes (see Dyes, coaltar).
Malachite, thioflavin toner, molybdic, bbls., works lb. 3.00 - —
Tungstic, bbls., works lb. 3.40 - —
Paris (see P).
Phthalocyanin toner, bbls., works, lb. 4.40 - 5.00
Tungstated, brilliant, kgs. lb. 3.00 - 4.00
Emerald, kgs lb. 2.60 - —
Verdigris (see V).
Grindelia robusta herb, bls. lb. .24 - .30
Guaiac resin, NF, cs. lb. .60 - .65
ordinary, cs. lb. .49 - .51
Wood, bls lb. .35 .36
Guaiacol, cryst., tins lb. No prices.
Liquid, NF, bots., cbys. lb. 1.90 - 1.95
Carbonate, dms. lb. 2.95 - 3.00
Guarana, powd., cs. lb. 1.50 - 1.75
Gum, accroides (see Gum, yacca).
Aloe (see A.)
Ammoniac, tears, cs. lb. .90 - .95
Arabic, amber, sorts, bgs. lb. .12½- .13
powdered, USP, bbls lb. .20½- .21
Asafetida (see A).
Asphalthum (see A).
Benzoin, Sumatra, cs lb. .50 - .70
Camphor (see C)
Copal, Congo, No. 1, bgs. lb. .25 - .26
No. 2, bgs lb. .18 - .20
No. 3, bgs lb. .13½- .15
Manila, loba, B, bgs lb. .25 - .27
C, bgs lb. .23 - .24½
CBB, bgs lb. .19 - .20
CNE, bgs lb. .13½- .15
DBB, bgs lb. .16½- .17½
DK, bgs lb. .13 - .14
dust, bgs lb. .07 - .08
soft, MA, bgs lb. .11 - .13½
WS, bgs lb. .21 - .22
Gum copal, Philippine, pale, chips, bgs lb. .18½- .20½
nubs, bgs lb. .22 - .24
seeds, bgs lb. .15 - .16
sorts, bgs lb. .17½- .19½
Pontianak, chips, bgs lb. .22 - .24
nubs, bgs lb. .32 - .35
Dammar, Batavia, A/D, bgs lb. .28 - .30
A/E, bgs lb. .23 - .24
dust, bgs lb. .08½- .09½
E, bgs lb. .13½- .14½
East India, batu, bold, bgs lb. .10 - .11
nubs & chips, bgs lb. .07½- 09
black, bold, bgs lb. .12½- .13½
unscraped, bgs lb. .09½- .10½
nubs & chips, bgs lb. .09½- .10½
pale, chips, bgs lb. .13 - .15
nubs, bgs lb. .25 - .27
Singapore, No. 1, bgs lb. .36 - .38
No. 2, bgs lb. .22 - .23
No. 3, bgs lb. .10 - .12
dust, bgs lb. .09 - .10
seeds, bgs lb. .13 - .14
Elemi, cns lb. .21 .23
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va. lb. .13 - .13½
wood-rosin type, dms., c.l., dlvd. Ill., Ind., etc. lb. .13 - .13½
Euphorbium, cs lb. .35 - .40
Galbanum, cs. lb. .75 - .80
Gamboge, pipe, cs lb. 1.15 - 1.25
powd., bbls lb. 1.35 - 1.40
Ghatti, No. 2, bgs lb .35 - .37
No. 3, bgs lb .31 - .33
Guaiac (see Guaiac resin).
Karaya, powd., No. 1 lb. .50 - .51
No. 2 lb. .46 - .47
No. 3 lb. .38 - .39
Gum, kauri, bgs lb. .31½- .32¾
Locust bean, powd., bgs lb. .30 - .32
Mastic, cs. lb. 1.80 - 1.90
Myrrh, cs. lb. .30 - .35
Olibanum, siftings, cs lb. .12 - .13
tears, cs. lb. .16 - .30
Opium (see O).
Red (see Gum, yacca).
Rosin (see R).
Sandarac, cks lb. 1.25 Nom.
Scammony, cs lb. 1.50 1.55
Sterculia (see Gum, karaya).
Talha, bgs lb. .10 - .11
Tragacanth, No. 1, cs lb. 2.75 - 3.00
No. 2, cs lb. 2.50 - 2.75
No. 3, cs lb. 1.75 - 2.00
powdered, USP, bbls lb. 1.35 - 1.45
Yacca, bgs lb. .06 - —
Gypsum, Keane's cement, paper bgs., c.l., Acme, Tex., frt. equald ton.22.65 - —
Harlem river, N. Y., frt. equald ton.28.25 - —
Medicine Lodge, Kan., frt. equald ton.17.00 - —
New Brighton, N. Y., frt. equald ton.30.65 - —
Southard, Okla., frt. equald ton.17.00 - —
Sweetwater, Tex., frt equald ton.21.45 - —
Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald. ton.12.50 - —
Blue Rapids, Kans., frt. equald ton.10.50 - —
Harlem river, N Y., frt. equald ton.12.00 - —
Medicine Lodge, Kan., frt. equald ton.12.50 - —
New Brighton, N. Y., frt equald ton.18.00 - —
Saltville, Va., frt. equald ton. 9.00 - —
Gypsum, plaster of paris, paper bgs., c.l., Southard, Okla., frt. equald ton.12.50 - —
Sweetwater, Tex., frt. equald ton.12.50 - —
Stucco, paper bgs., Akron, N. Y., frt. equald ton. 8.00 - —
Blue Rapids, Kans., frt. equald ton. 8.00 - —
Clarence Center, N. Y., frt. equald ton. 8.00 - —
Fort Dodge, Iowa, frt. equald ton. 8.00 - —
Gypsum, Ohio, frt. equald. ton. 8.00 - —
Grand Rapids, Mich., frt. equald ton. 8.00 - —
Harlem river, N. Y., frt. equald ton. 8.00 - —
National City, Mich., frt. equald ton. 8.00 - —
New Brighton, N. Y., frt. equald ton. 8.00 - —
Plasterco, Ga., frt. equald. ton. 8.00 - —
Portsmouth, N. H., frt. equald ton. 8.00 - —
Roton, Texas, frt. equald ton. 8.00 - —
Saltville, Va., frt. equald ton. 9.00 - —
Southard, Okla., frt. equald ton. 8.00 - —
Sweetwater Texas, frt. equald ton 8.00 - —
Terra alba, paper bgs., c.l., Harlem River, N. Y., works ton.22.50 - —
New Brighton, N. Y., works ton.21.00 - —

H

Hawthorn berries, bgs lb. .50 - .57
Heliotropin, cryst., cns lb. 2.85 - 3.05
Hellebore root, dom., green, bls lb. .80 - .90
imp., black, whole, bls. lb. .20 - .25
ground, bxs. lb. .25 - .30
powder, bxs. lb. .27 - .32
white, whole, bls. lb. .30 - .40
powder, bxs. lb. .35 - .45
Hematine extract, cryst., No. 0, bbls., l.c.l lb. .45½- —
No. 1, bbls., l.c.l. lb. .44½- —
No. 1A, bbls., l.c.l lb. .41½- —
No. 2, bbls., l.c.l. lb. .40½- —
No. 3, bbls., l.c.l lb. .38½- —
No. 4, bbls., l.c.l lb. .36½- —
No. 5, bbls., l.c.l lb. .34½- —
paste, No. 1, bbls., l.c.l lb. .19 - —
No. 2, bbls., l.c.l lb. .18 - —
No. 3, bbls., l.c.l. lb. .17 - —
No. 4 (red), bbls., l.c.l. lb. .12½- —
Hemlock bark extract, 25% tannin, bbls., c.l., works lb. No stocks.
tanks, works lb. No stocks
Henbane leaves, bls lb. .35 .45
Henna leaves, bls lb. .23 - .25
powd., bbls., bgs lb. .27 - .29
Heptane, industrial, Bayonne, N. J., tanks gal. .16 - —
group 3, tanks gal. .12½- .13½
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 1,000-lb. lots, Perth Amboy or N.Y.C. lb. .22 - —
bbls. lb. .22½- —
smaller lots, bgs., same basis lb. .24 - —
bbls. lb. .24½- —
USP, dms., 500 lbs., or more, same basis lb. .38½- —
smaller lots, same basis lb. .39½- —
Hexamine (see Hexamethylene tetramine).
Hexane, industrial, group 3, tanks, gal. .13½- .14½
Bayonne, N. J., tanks gal. .16 - —
Hexanol, normal, dms., c.l., works, lb. .30½- —
l.c.l., works lb. .31 - —
tanks, works lb. .29 - —
Hexyleneglycol, dms., c.l., dlvd lb. .14 - —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .12½- —
Hexylresorcinol, USP, 50 lbs. up, frt. alld lb.17.00 -19.00
works lb.17.00 -25.75
smaller lots, frt. alld lb.18.00 -19.50
works lb.18.00 -31.50
Histamine diphosphate, USP, bots kilo.500.00 - —
Histidine hydrochloride—laevo, NF, fib. dms., 50 kilo lots, works kilo.100.00 -120.00
1-5 kilos, works kilo.110.00 -130.00
Homatropine hydrobromide, USP, bots oz.15.00 -16.00
Hydrochloride, bots oz.20.00 -22.00
Methylbromide, NF oz.13.00 -16.25
Hoofmeal, 17-18% ammonia bulk, c.l., Chicago unit-ton. 7.50 - —
Hops, NF, bls. lb .40 - .45
Horehound, bls. lb. .12 - .15
Hydrangea root, bls. lb. .14 - .17
Hydrastine, bots oz.53.50 -53.80
Hydrochloride, NF oz.29.50 -36.00
Sulphate, bots oz.53.50 -53.80
Hydrastinine, 10-grain bots bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrofuramide, dms., fib. cns., works lb. .30 - .40
Hydrogen peroxide, USP, bbls lb. .03¾- .05
27½%, cbys., E. of Miss. or W. coast via Panama Canal lb. .17½- .19½
35%, cbys., same basis lb. .23½- —
dms., c.l., same basis lb. .20½- —
l.c.l., same basis lb. .21½- —
tanks lb. .19¾- —
Hydroquinone, photographic, bbls., dms lb. .90 - —
tech., dms. lb. 70 - —
Hydroxycitronellal, cns. lb. 5.35 - 7.80
Hyoscine salts (see Scopolamine).
Hyoscyamine, bots. oz.15.75 -16.00
Hydrobromide, bots. lb.16.50 -18.00
Sulphate, bots. oz.13.50 -14.00
Hypernic extract, cryst., No. 1, bbls., l.c.l lb. .56 - —
No. 2, bbls., l.c.l lb. .48 - —
liquid, No. 1, bbls., l.c.l lb. .30 - —
No. 2, bbls., l.c.l lb. .25 - —
solid, No. 1, bxs., l.c.l lb. .44 - —
Hyssop herb, bgs lb. .35 - .45
Leaves, bgs. lb. .45 - .50

I

Iceland moss, bgs. lb. .35 - .40
Ichthammol, F, dms lb. .60 - .75
Indian red (see Red, Indian).
Indigo, nat., chests lb. 2.14 - 2.16
synth., paste, bots lb. .23 - —
powd., bbls lb. 1.03 - —
Indol, CP, bots lb.17.00 -19.00
Inositol, tins, dlvd lb 5.00 —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs lb. 1.52 - 1.729
resubl., USP., bots., jars. lb. 2.30 - 2.48
Iodochlorohydroxyquinolin, NF, dms. lb. 5.90 - —
Iodoform, NF, dms., kgs lb. 4.45 - 4.60
Ionone, alpha, cns lb. 4.40 -12.30
beta, cns. lb. 7.05 6.50
Methyl (see M).

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Be sure YOUR solvents also offer these advantages:
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4. Low specific gravity

Powerful Ketone Solvents permit the use of more low cost diluent, without changing the quality of your product

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IPC, bots., 1-5 lbs.	lb.	2.68	- 2.72
fib. dms., 100 lbs., ship't point	lb.	2.30	- 2.50
50 lbs., ship't point	lb.	2.40	- 2.52
10-25 lbs., ship't point	lb.	2.50	- 2.54
Ipecac root, bgs	lb.	4.25	- 4.50
powd., bgs.	lb.	4.65	- 4.90
Irish moss, bleached, prime, bls.	lb.	.16	- .18
Iron acetate, liquor, 38° bois., c.l., works	lb.	.09	- —
l.c.l., works		.09¾	- —
solut., USP IX, cbys	lb.	.16	- —
djns.	lb.	.17	- —
Cacodylate, NF, bots	lb.	13.50	-14.50
Chloride (ferric), anhydr., tech., dms., c.l., works 100 lbs.		5.75	- —
l.c.l., works 100 lbs.		6.50	- 7.50
cryst., tech., c.l., bbls., works, 100 lbs.		5.00	- 6.00
l.c.l., bbls., works 100 lbs.		5.50	- 8.00
USP, dms., works	lb.	.06¾	- .08¼
solut., 42 Be. 100% basis, tanks, works 100 lbs.		3.45	- —
Citrate, gran., dms	lb.	.77	- .79
Gluconate, NF, dms	lb.	.83	- .93
Glycerophosphate, N.F., powd	lb	4.25	- 4.35
Hypophosphite, NF, dms	lb.	2.80	- —
Iodide, bots	lb.	3.66	- 3.73
Naphthenate, liq., 6% Fe, dms., frt. alld	lb.	.21¼	- .21¾
Oxalate, gran., dms	lb.	.83	- .85
Phosphate, soluble, NF, gran., cs.	lb.	.64	- .69
Pyrophosphate, soluble, NF VII, gran., dms	lb.	.69	- .72
Reduced (see iron by hydrogen).			
Resinate, 7.4%, Fe, dms., frt. alld.	lb.	.23	- —
Stearate, dms., c.l.	lb.	.34	- —
ton lots	lb.	.35	- —
less ton lots	lb.	.36	- —
Sulphate, ferric, anhyd., bgs., c.l., works	ton.	28.50	- —
l.c.l., works	ton.	29.50	- —
ferrous, tech. (see Copperas).			
USP, cryst., bbls., dms	lb.	.09½	- .10
Iron by hydrogen, kgs	lb.	.80	- .85
Iron-ammonium citrate, green, NF, gran., dms	lb.	.53	- .58
brown, USP, gran., dms	lb.	.55	- .58
Oxalate, dms.	lb.	.25½	- .28½
Iron-potassium oxalate fine gran., dms.	lb.	.30½	- .33½
Iron-sodium oxalate, fine gran., dms	lb.	.25½	- .28½
Isobornyl acetate, cns.	lb.	.97	- 1.10
Isobutyl acetate, cns.	lb.	.82	- 1.25
Methacrylate, M-5, dms., works	lb.	.60	- —
cns., works	lb.	.63	- .67
P-5, cns., works	lb.	.60	- —
Propionate, cns.	lb.	No prices.	
Thiocyanocetate, dms., c.l., works.	gal.	3.85	- —
l.c.l., works	gal.	3.85	- 4.05
tanks, works	gal.	4.23	- —
Isobutyraldehyde, dms., works	lb.	.50	- .53
Isoeugenol, cns.	lb.	3.10	- 3.40
Isoleucine, dextro-laevo, with allo-isoleucine, dms., works	lb.	26.00	-35.00
Isopentane, dms., works	lb.	.45	- .55
Isophorone, dms., c.l., works	lb.	.23½	- —
l.c.l., works	lb.	.24	- —
tanks, works	lb.	.22	- —
Isopropanol (see Acohol, isopropyl).			
Isopropyl acetate, dms., c.l., frt. alld.	lb.	.10¼	- —
l.c.l., same basis	lb.	.11	- .11¼
tanks, same basis	lb.	.09	- —
Alcohol (see Alcohol, isopropyl).			
Benzene (see Cumene).			
Ether (see Ether, isopropyl).			
Phenylcarbamate (see IPC).			
Isopropylamine, dms., c.l., works	lb.	.24	- —
l.c.l., same basis	lb.	.25	- —
Isoquinoline, dms., c.l., works	lb.	.20	- —
l.c.l., works	lb.	.40	- —

J

Jaborandi leaves, bls.	lb.	.13	- .20
Jalap root, NF, bls.	lb.	.40	- .45
powd., bbls., bxs.	lb.	.45	- .53
Resin, powd., bxs.	lb.	7.15	- 7.25
Juniper berries, bgs.	lb.	.09	- .13
Tar, USP, dms.	lb	.80	- .85

K

Kamala, powd., cns.	lb.	.47	- .49
Kaolin (see China clay).			
Kava kava root, bls.	lb.	.25	- .30
Kerosene, at refinery; Ark., 42-44 specific gravity, w.w., tanks	gal.	.07875	- —
Bayonne, 41-43 s.g., w.w., tanks.	gal.	.09	- —
California, 40-43, s.g., w.w., tanks	gal.	.121	- .156
Gulf ports, 41-43, s.g., w.w., tanks.	gal.	.085	- .0925
Okla.-Tex., 41-43, s.g., w.w., tanks.	gal.	.07625	- .08375
Penn., 45 s.g., w.w., tanks	gal.	.095	- .10
Kola nuts, bgs	lb.	.08	- .10
Kyanite, imp., low iron content, 10-mesh, whse.	ton.	85.00	-95.00
calcined, grain, 10-mesh, whse.	ton.	95.00	-105.00

L

Lady slipper root, bls.	lb.	1.50	- 1.75
Lanolin, anhyd., cosmetic, dms., works	lb.	.31	- .33
pharmaceutical, USP, dms., works	lb.	.29	- .32
hydrous	lb.	.28	- .30½
Lard, cash, trcs., Chicago	lb.	.09¾	- .10
Larkspur seed bgs	lb.	.53	- .60
Laurel berries, bls.	lb.	.23	- .26
Leaves, Portuguese, bls.	lb.	.12	- .12½
Greek, bls.	lb.	.08	- .08½
Turkish, bls., recleaned	lb.	.20	Nom.
Lavender flowers, medium, bls.	lb.	.55	- .60
ordinary, bls.	lb.	.18	- .20
select, bls.	lb.	.60	- .65
Lead acetate, white, crystals, cbts.,	lb.	.20	- —
gran., bbls.	lb.	.20¾	- —
powd., bbls.	lb.	.20¾	- —
USP, cryst., dms.	lb.	.21½	- .26
gran., powd., dms.	lb.	.22¼	- .26¾
Arsenate, dealers, basic powder, 3-lb. bgs., or larger, c.l., frt. alld.	lb.	.27	- .30
l.c.l., frt. alld	lb.	.31	- —
1-lb. bgs., c.l., frt. alld.	lb.	.38	- .41½
l.c.l., frt. alld.	lb.	.39	- .42½
Lead arsenate prices are works or whse. basis frt. alld. on 96 lbs. or more to dest. East.			
Blue, basic sulphate, bbls., c.l., ship't point, frt. alld.	lb.	.14	- —
l.c.l., works	lb.	.15	- —
Carbonate (see Lead, white).			
Chloride, fib. dms.	lb.	.49	- —
Iodide, NF V, jars	lb.	2.94	- 3.13
Linoleate, liq., 13% Pb, dms., frt. alld.	lb.	.29¼	- —
Metal, pigs, prime, N. Y.	lb.	.1230	- —
E. St. Louis	lb.	.1230	- —
Lead, metallic paste, dms., 30,000-40,000 lbs., works	lb.	.28	- —
10,000-20,000 lbs., same basis	lb.	.28½	- —
2,000-10,000 lbs., same basis	lb.	.29	- —
100 to 2,000 lbs., same basis.	lb.	.29½	- —
Prices ex whse, Jersey City, N. J., 4½c. per pound higher			
Napnthenate, liquid, 16% pb, dms., dlvd	lb.	.15½	- —
24% Pb, dms., dlvd	lb.	.21¼	- —
30% Pb, dms., dlvd	lb.	.25¾	- —
Nitrate, bbls., c.l.	lb.	.19	- —
l.c.l.	lb.	.19¼	- —
Oleate, fused, bbls	lb.	.24	- —
Orthosilicate gel, 50% PbO, dms., works	lb.	.29½	- —
60% PbO, dms., works	lb.	.28	- —
Peroxide, powd., tech., bbls	lb.	.33	- .34
Phthalate, dibasic, dms., works	lb.	.37½	- —
Red, 95%, Pb_3O_4, or less, bbls., c.l., ship.t point, frt. alld.	lb.	.15¼	- —
l.c.l., same basis	lb.	.16¼	- —
97%, Pb_3O_4, bbls., c.l., same basis	lb.	.15½	- —
l.c.l., same basis	lb.	.16½	- —
98%, Pb_3O_4, bbls., c.l., same basis	lb.	.15¾	- —
l.c.l., same basis	lb.	.16¾	- —
Resinate, precip., dms., dlvd	lb.	.25	- —
Salicylate, normal, dms., works	lb.	.41¾	- —
Silicate, bgs., l.c.l., ship't pt., frt. alld.	lb.	.1470	-.1525
Stearate, dibasic, dms., works	lb.	.50¼	- —
precip., bbls., c.l.	lb.	.36	- —
ton lots	lb.	.37	- —
less ton lots	lb.	.38	- —
Sulphate (see Lead, blue; Lead, white, basic sulphate).			
tribasic, dms., works	lb.	.24¼	- —
Lead tallate, liquid, 16% Pb, dms.	lb.	.13¼	- —
solid, 30% Pb, dms.	lb.	.20½	- —
White, basic carbonate, bgs., c.l., ship't point, frt. alld	lb.	.15⅝	- —
l.c.l., same basis	lb.	.16⅜	- —
basic silicate, bgs., c.l., ship't point, frt. alld.	lb.	.14⅞	- .17¼
l.c.l., same basis	lb.	.15⅝	- .18¼
basic sulphate, bgs., c.l., ship't point, frt. alld.	lb.	.14	- —
l.c.l., same basis	lb.	.15	- —
Lecithin, edible, tech., bleached dms., non-ret., c.l., works	lb.	.16	- —
l.c.l., same basis	lb.	.18½	- —
unbleached, c.l., same basis	lb.	.15	- —
l.c.l., same basis	lb.	.17½	- —
Lemon peel, bls.	lb.	.22	- .23
Leucine, dextro-laevo, dms., works	lb.	26.00	-35.00
Licorice extract, mass, cns.	lb.	.45	- —
powd., bbls.	lb.	.55	- —
Root, bls	lb.	.08	- .09
5-lb. bundles, cs.	lb.	.40	- .45
powd., bbls	lb.	.11	- .12
Lignin extract, tanning grade, bgs., c.l., works	lb.	.04¾	- —
Lime, agricultural, bgs., works.	ton.	13.00	-13.50
Chemical (quicklime), lump, pebble, bulk, Adams, Mass.	ton.	10.00	- —
Annville, Pa.	ton.	10.50	- —
Bellefonte, Pa.	ton.	10.50	- —
Buffalo, N. Y.	ton.	10.00	- —
Carey, Ohio	ton.	7.00	- —
Cedar Hallow, Pa.	ton.	10.50	- —
Farnams, Mass.	ton.	9.00	- —
Gibsonburg, Ohio.	ton.	8.50	- —
Hannibal, Mo.	ton.	7.50	- —
Keystone, Ala.	ton.	9.75	- —

IPC—Lime, Hydrated

Lime, chemical (quicklime), lump, pebble, bulk, Knoxville, Tenn.	ton.	9.75	- —
Limedale, Ark.	ton.	9.00	- —
Longview, Ala.	ton.	9.75	- —
Martinsburg, W. Va.	ton.	10.00	- —
Menominee, Mich.	ton.	8.00	- —
Mitchell, Ind.	ton.	7.50	- —
Rockland, Maine	ton.	9.00	- —
Scioto, Ohio	ton.	7.50	- —
Sherwood, Tenn.	ton.	10.00	- —
Sherwood, Wis.	ton.	8.50	- —
Woodville, Ohio	ton.	9.50	- —
York, Pa.	ton.	10.50	- —
Hydrated, paper bgs., Adams, Mass.	ton.	11.50	- —
Annville, Pa.	ton.	13.50	- —
Bellefonte, Pa.	ton.	13.50	- —
Buffalo, N. Y.	ton.	13.50	- —
Carey, Ohio	ton.	9.00	- —
Cedar Hollow, Pa.	ton.	13.50	- —
Engle, W. Va.	ton.	13.00	- —
Farnams, Mass.	ton.	11.50	- —
Gibsonburg, Ohio	ton.	9.50	- —
Hannibal, Mo.	ton.	9.50	- —
Keystone, Ala.	ton.	13.00	- —
Knoxville, Tenn.	ton.	12.25	- —
Limedale, Ark.	ton.	10.50	- —
Longview, Ala.	ton.	13.00	- —
Manistique, Mich.	ton.	9.50	- —
Marblehead, Ohio.	ton.	10.50	- —
Mitchell, Ind.	ton.	10.00	- —
Petoskey, Mich.	ton.	10.00	- —
Port Island, Mich.	ton.	9.00	- —
Rapid City, S. Dak.	ton.	12.00	- —
Rockland, Maine	ton.	9.00	- —
Scioto, Ohio	ton.	9.00	- —
Sherwood, Tenn.	ton.	13.00	- —
Sherwood, Wis.	ton.	10.00	- —
Springfield, Mo.	ton.	9.00	- —
Woodyville, Ohio	ton.	8.50	- —
York, Pa.	ton.	13.50	- —

SAVE MONEY...

on every Gallon of House Paint with

BASIC SILICATE WHITE LEAD **45X**

...with no sacrifice in quality

See how this remarkable new pigment cuts costs.

Use fewer pounds of pigment in your paint... turn out just as many gallons... and keep the sales-making qualities that only white lead can give you: durability ... flexibility ... adhesion.

Here's an entirely new pigment concept: a particle in which the reactive basic portion is concentrated at the surface. This holds for you all the advantages for which lead pigments are famous and at the same time gives the high bulk that results from lower specific gravity.

Basic Silicate White Lead 45 X is a highly efficient paint film stabilizer, and in addition it contributes to the self-cleaning properties of multiple-pigment house paints.

Get the detailed facts about this money-saving pigment. Phone or write the National Lead office nearest you.

Photomicrograph of Basic Silicate White Lead 45 X particles showing concentration of reactive white lead compound on surface.

Photomicrograph of characteristic lead soap formation produced with Basic Silicate White Lead 45 X, showing the effective action of the particle.

"Save the Surface and You Save All"

DUTCH BOY
Basic Silicate
WHITE LEAD 45X

NATIONAL LEAD COMPANY

New York 6; Buffalo 3; Chicago 8; Cincinnati 3; Cleveland 13; Philadelphia 25; Pittsburgh 12; St. Louis 1; San Francisco 10; Boston 6; (National Lead Co. of Mass.).

Lime, Spray—Oil, Birchtar

Lime, spray, paper bgs., Adams, Mass.	ton.	11.70	—
Annville, Pa.	ton.	13.50	—
Bellefonte, Pa.	ton.	13.50	—
Carey, Ohio	ton.	11.00	—
Engle, W. Va.	ton.	13.00	—
Farnams, Mass.	ton.	9.50	—
Gibsonburg, Ohio	ton.	10.00	—
Marblehead, Ohio	ton.	10.00	—
Rockland, Me.	ton.	10.00	—
Scioto, Ohio	ton.	10.00	—
Woodville, Ohio	ton.	10.00	—
York, Pa	ton.	13.50	—
Lime salts (see Calcium).			
Lime-ammonia-nitrogen, 20.5% N (see Ammonium nitrate-limestone).			
Limestone, grd., bgs., works	ton.	3.50	4.00
Linalool, ex bois de rose	lb.	4.50	6.85
ex lignalce wood	lb.	6.50	7.00
Linalyl acetate, ex bois de rose, bots	lb.	4.20	7.20
ex petitgrain, bots	lb.	4.25	6.00
Lindane, 25%, works, cans	lb.	3.00	3.05
dms., works	lb.	2.95	—
Linden flowers with leaves, bls	lb.	.22	.25
without leaves, bls	lb.	.22	.28
Linseed meal, 34% bulk, Midwest mills	ton.	61.00	-62.00
Litharge, com'l. powd., bbls., c.l., ship't point, frt. alld	lb.	.14¼-	—
l.c.l., same basis	lb.	.15¼-	—
Lithium benzoate, dms	lb	1.65	—
Bromide, NF, bbls., works, frt. equald	lb	1.90	—
Carbonate, NF, bbls., kgs	lb	1.10	1.15
Chloride, dms.	lb	1.00	—
Citrate, NF, bbls., dms., kgs	lb.	1.25	- 1.40
Fluoride, bbls.	lb.	1.93	—
Hydroxide, dms.	lb.	1.10	—
Salicylate, dms.	lb.	1.62	1.70
Lithopone, ordinary, bgs., c.l., ship't point	lb.	.06¼-	—
l.c.l., same basis	lb.	.06½-	.06½
Titanated (high-strength), bgs., c.l.	lb.	.08¼-	—
smaller lots	lb	.08½-	—
Lithopone prices, Pacific Coast, ¾c. per lb higher.			
Liverwort leaves, bls	lb.	.75	.8.
Lobelia herb, bls	lb.	.80	.85
leaves, NF	lb.	.85	.90
Lobeline sulphate, bots., works	oz.	34.00	-38.00
Logwood extract, crystals, No. 1, bbls., l.c.l.	lb.	.33½-	—
No. 2, bbls., l.c.l.	lb.	.36½-	—
Logwood extract, liquid, No. 1, bbls., l.c.l.	lb.	.18½-	—
No. 2, bbls., l.c.l.	lb.	.17½-	—
No. 3, bbls., l.c.l.	lb.	.17	—
No. 4, bbls., l.c.l.	lb.	.16½-	—
solid, No. 1, bxs., l.c.l.	lb.	.33	—
No. 2, bxs., l.c.l.	lb.	.31	—
No. 3, bxs., l.c.l.	lb.	.28½-	—
No. 4, bxs., l.c.l.	lb.	.28	—
No. 5, bxs., l.c.l.	lb.	.26½-	—
No. 6, bxs., l.c.l.	lb.	.44½-	.49¼
Lovage root, imp., bls	lb.	1.00	- 1.10
Lupulin, tins	lb.	1.93	- 2.00
Lycopodium, cs	lb.	1.45	- 2.00
Lysine hydrochloride, dextro-laevo,	kilo.	145.00	-149.00

M

Mace, Amboyna, bls	lb.	.73	.74
Banda, No. 1, bls	lb.	1.05	-1.07 Nom.
Siauw, No. 1, bbls	lb.	.92	- .95
West Indian, bls	lb.	.83	- .84
broken, bls.	lb.	.72	- .73
Madder, Dutch, bgs	lb.	.29	- .32
Magnesia, calcined, tech., ctns., works	lb.	.32	—
synth., rubber grade, ctns., works	lb.	.29	- .31
USP, light ctns	lb.	.34	—
heavy, bbls	lb.	.36	—
Magnesium arsenate, bgs., cans, works	lb.	.20	- .30
Bromide, jars	lb.	.90	- 1.00
Carbonate, tech., bgs., c.l., frt. equald	lb.	.09	—
l.c.l., frt. alld.	lb.	.10	—
bbls., c.l., frt. equald	lb.	.10¼-	—
l.c.l., frt. alld.	lb.	.11¼-	—
kgs., c.l., frt. equald	lb.	.11½-	—
l.c.l., frt. alld.	lb.	.12½-	—
USP, bgs., c.l., frt. equald	lb.	.10¾-	—
l.c.l., frt. alld	lb	.11¾-	—
bbls., c.l., frt. equald	lb.	.11¼-	—
l.c.l., frt. alld.	lb.	.12¼-	—
kgs., c.l., frt. equald	lb.	.12½-	—
l.c.l., frt. alld.	lb.	.13½-	—
Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila. county, Pa. Frt. equald. with N. Y. C. on all other destinations.			
Chloride, anhyd., dms., works	lb.	.12¼-	—
flake, bbls. c.l., works	ton.	40.00	—
l.c.l., works	ton.	44.00	-46.00
Gluconate, dms., cns	lb.	1.86	- 1.93
Glycerophosphate, dms., works	lb.	4.85	- 4.95
Hydroxide, NF, medicinal, bbls., dms., kgs	lb.	.29	- .30
Hypophosphite, dms.	lb.	1.60	—
Laurate, bbls	lb.	.46	- .47
Metal, 99.8% ingots, cs., works	lb.	.20½-	—
sticks, cs., works	lb.	.34	- .38
Oleate, fused, bbls	lb.	.31	—
Oxide (see Magnesia, calcined).			
Peroxide, 15%, dms., works	lb	1.00	- 1.05
Phosphate, tribasic, NF, bbls.	lb.	.75	- —
Silicate (see Talc).			
Silicofluoride, bbls., works	lb.	.09	- .10
Stearate, ctns., c.l.	lb.	.35	—
smaller lots	lb.	.36	.37
Sulphate (see Epsom salt).			
Trisilicate, USP, dms., 1,000-lb. lots	lb.	.43	—
100-lb. lots	lb.	.50	—
Magnesite, chemical grade, bgs., c.l., mines, Calif.	ton.	67.50	—
dead-burnt, bulk, c.l., Chewalah, Wash.	ton.	30.50	—
Maleic anhydride, dms., c.l., frt. alld	lb.	.30	—
l.c.l.	lb.	.31	—
Prices on maleic anhydride West of Rockies 1½c. higher.			
Malva flowers, black, bls	lb.	1.00	1.25
Blue, bls.	lb.	.95	1.10
Leaves, bls	lb.	.35	.40
Manaca root, bls	lb.	.49	.50
Mandrake root, bls	lb.	.45	- .50
Manganese acetate, bbls.	lb.	.32	—
Arsenate, bgs.	lb.	.12	- .12½
Borate, tech., bbls.	lb.	.23	—
Carbonate, bbls.	lb.	.19	—
Chloride, anhyd., dms., works	lb.	.18	- .19
Dioxide, African, battery, 84-87%, bbls., 20-40 tons, works	ton.	74.00	—
smaller lots, works	ton.	77.00	-82.00
burlap bgs., c.l., works	ton.	71.75	—
l.c.l., works	ton.	74.75	-79.79
paper bgs., c.l., works	ton.	70.00	—
l.c.l., works	ton.	73.00	—
65-90%, bbls., c.l., works	ton.	74.00	—
smaller lots, works	ton.	77.00	-82.00
Manganese gluconate, dms., cns	lb.	1.86	- 1.93
Glycerophosphate, NF, lib. dms	lb.	4.15	- 4.25
Hydrate, bbls., dlvd.	lb.	.26	—
Hypophosphite, NF, dms	lb.	2.00	—
Linoleate, liquid, 4.35% Mn, dms	lb.	.39¼-	—
solid, precip., 8.2% Mn, bbls.,	lb.	.41½-	—
Metal, cs, dlvd. East	lb.	.30	.32
Naphthenate, liquid, 6% Mn, dms., frt. allo	lb.	.22¾	- .23¼
Oleate, precip, bbls	lb.	.33½-	—
Resinate, fused, 3½% Mn, dms	lb.	.20	—
precip., dms.	lb.	.21½-	—
Stearate, ctns., c.l.	lb.	.35	—
smaller lots	lb.	.36	.37
Sulphate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E	ton.	60.00	—
l.c.l., dlvd. S. E.	ton.	67.00	—
feed grade, 80%, bgs., dlvd. S. E.	lb.	.05¼-	.07
75%, bgs. c.l., dlvd. S. E	ton.	68.50	—
l.c.l., dlvd. S. E.	ton.	75.50	—
Tallate, liquid, 4% Mn, dms	lb.	No prices.	
solid, 8% Mn, dms	lb.	No prices.	
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock	ton.	No stocks.	
So. American, 30-32% tannin, c.l., ex dock	ton.	63.00	—
Manna, flake, large, cs	lb.	1.25	1.35
small, cs	lb.	.85	1.00
MannRol, com'l, dms., works	lb.	.40	.43
reagent, 50-lb. dms., works	lb	.85	—
Marjoram, Argentine, bls	lb.	.14	Nom.
Chilean, bls.	lb.	.30	Nom.
French, bls., futures	lb.	.52	- .52½
Matico leaves, bls	lb.	.25	- .33
Melamine, bgs., ton lots, works	lb.	.33	—
500 lbs. or more, works	lb.	.33½-	—
less 500 lbs., works	lb.	.38½-	—
Menadione, USP, bots., works gram.		.06½	—
Menthol, natural, USP, Brazilian	lb.	10.70	-10.80
synthetic, USP, racemic, cns	lb.	7.25	Nom.
Menthyl salicylate, tins	lb.	4.25	- 4.35
Mercaptobenzo thiazole, 50-lb. bgs., 150-lb. containers, ton lots, works, frt. alld., ton lots	lb.	.27	—
less ton lots, same basis	lb.	.29	—
Mercury, ammoniated (see White precipitate).			
Bichloride (see Corrosive sublimate).			
Bisulphate, dms.	lb.	2.13	- 2.15
Chloride (see Calomel).			
Cyanide, NF, cryst., powd.	lb.	3.27	- 3.32
Iodide, red, NF, dms	lb.	4.07	—
Yellow, NF, lib. dms	lb.	4.22	—
Metal (see Quicksilver).			
Oxide, red, NF (see Red precipitate).			
yellow, tech. (see Yellow, mercury oxide).			
USP, lib. dms.	lb.	2.44	- 2.46
Mesityl oxide, dms., c.l., dlvd.	lb.	.13	—
l.c.l., dlvd	lb.	.13½-	—
tanks, dlvd	lb.	.11½-	—
Metaldehyde, dms., works	lb.	.78	—
Metachloranilin, dms., works	lb.	.75	—
Metacresol, 98%, dms., c.l., works	lb.	.55	- .60
works, l.c.l.	lb.	.56	—
80-82%, dms., works	lb.	.35	—
70-75%, dms., works	lb.	.30	—
Metaparaisopropylphenol, dms., c.l.	lb.	.21	—
l.c.l.	lb.	.22	—
tanks	lb.	.20	—
Metanitroparatoluidin, bbls.	lb.	1.28	- 1.33
Metaphenylenediamine, kgs	lb.	.76	—
Metatoluidine, bbls., works	lb.	.59	—
Metatolylenediamine, kgs	lb.	.85	—
Methanol, natural, dms., c.l., frt. alld	gal.	.58	—
l.c.l., frt. alld	gal.	.61	—
tanks, frt. alld	gal.	.50	—
Prices on natural methanol W. of Miss. 2c. higher.			
synthetic, eastern production, zone 1, dms., c.l., frt. alld.	gal.	.38	—
l.c.l., frt. alld	gal.	.41	—
tanks, frt. alld	gal.	.36	—
zone 2, dms., c.l., frt. alld.	gal.	.45	—
l.c.l., ex whse	gal.	47½-	—
tanks, frt. alld	gal.	.31	—
Synthetic methanol zones are: Zone 1 is all continental U. S., E. of eastern boundaries of Ariz., Idaho, Mont., and Utah. Zone 2 is remainder of the U. S., west of above state boundaries, comprising Ariz., Calif., Idaho, Mont., Nev., Ore., Utah and Wash.			
Texas production, Midwest and Gulf states, dms., c.l., works, frt. alld	gal.	.38	—
tanks, frt. alld	gal.	.26	—
West of Rockies, dms., c.l., frt. alld	gal.	.45	—
tanks, frt. alld	gal.	.31	—
Methenamine (see Hexamethylenetetramine).			
Methionine, dextro-laevo, lib. dms., works, 50-lb. or more	lb.	6.25	- 7.00
1 to 49-lb. lots, works	lb.	6.75	- 7.50
Methoxychlor, dealers, dms., cs., works	lb.	.61	—
Methyl abietate, non-ret. dms., c.l., dlvd., zone 1	lb.	.17	—
l.c.l., same basis	lb.	.17½-	—
hydrogenated, non-ret. dms., c.l., dlvd., zone 1	lb.	.17¼-	—
l.c.l., same basis	lb.	.17¾-	—
Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio., Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn., St. Louis, Mo., Miss., Ala., Ga., Fla., S. C. and Tenn.			
Acetate, dms., c.l., dlvd., N. Y.	lb	.08	—
l.c.l., same basis	lb	.08½-	—
Acetoacetate, dms., c.l., works	lb.	.49½-	—
l.c.l., same basis	lb.	.50	—
tanks, works	lb.	.48	—
Methyl acetoacetate prices frt. alld. W., ½c higher.			
Acetone, natural, group A, dms., extra, c.l., E. of Miss., frt. allo	gal.	.60	—
l.c.l., same basis	gal.	71	—
Natural methyl acetone group A prices W of Miss. 3c. per gal. higher.			
Group B. dms., incl., E. Miss., frt. allo., any quantity	gal.	.50	—
synthetic, dms., c.l., works, frt. allo. E	gal.	.53	—
frt. allo. W	gal.	.57	—
l.c.l., works, frt. allo. E	gal.	.56½-	—
frt. allo. W	gal.	.60½-	—
works, frt. allo. E	gal.	.43½-	—
frt. allo. W	gal.	.47	—
Methyl acetone, synth., East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory all States West of those four.			
Alcohol (see Methanol).			
Anthranilate, 100 lbs. or more	lb.	2.10	- 2.90
extra	lb.	4.00	- 4.40
Benzoate, cns.	lb.	.55	1.20
Bromide, dealers, cns	lb.	.69	- .71
cyls.	lb.	.60	- .76
Methyl chloride, indust., cyl., works	lb.	.17	—
tanks, multi-unit, works	lb.	.13	—
single-unit, works	lb.	.10½-	—
refrigerator mfrs., cyls., dlvd.	lb.	.37	—
other consumers or service men, cyls., dlvd	lb.	.42	—
Cinnamate, cns.	lb.	1.48	- 1.65
Formate, refd., dms.	lb.	.35	- .40
tech., non-ret. dms., any quantity, works	lb.	.08	—
tanks, works	lb.	.07	—
Heptin carbonate, bots.	lb.	36.00	-56.00
Iodide, bots., cbys.	lb.	3.00	- 3.40
Lactate, dms., l.c.l., works	lb.	.35	—
Methacrylate, M-1, dms., works	lb.	.45	—
cns, works	lb.	.48	.58
P-1, cns., works	lb.	.60	—
Parahydroxybenzoate, USP, bots.	lb.	2.10	- 2.20
lib. dms.	lb.	1.90	- 2.00
Roseanilin chloride, USP, bots.	lb.	5.15	- 5.30
Salicylate, USP, dms., 500 lbs.	lb.	.40	—
25-50 lbs.	lb.	.45	—
Testosterone, USP, 100 gms.	gm.	3.50	—
Methylal, refined, 95%, dms., c.l., works	lb.	.11	—
l.c.l., works	lb.	.12	—
tanks, works	lb.	.09	—
Methylamyl acetate, dms., c.l., dlvd.	lb.	.13	—
l.c.l., dlvd	lb.	.13½-	—
tanks, dlvd.	lb.	.11½-	—
Ketone, dms., works	lb.	70	—
Methylcellulose, special vis., (4,000 cps.), lib. ctns., c.l., frt. allo.	lb.	.68	—
2,000 lbs. and more, same basis	lb.	.70	—
smaller lots, frt. allo. on 100 lbs.	lb.	.75	.80
standard vis., (15-1,500 cps.), fib. ctns., c.l., frt. allo	lb.	.62	—
2,000 lbs. and more, same basis	lb.	.63	—
smaller lots, frt. allo. on 100 lbs.	lb.	.68	- .73
Methylene blue, USP, 100-lb. lots, kgs., frt. equald	lb.	2.87	—
smaller lots, kgs., same basis	lb.	3.02	3.23
Chloride, indust., dms., c.l., dlvd. E	lb.	.12½-	—
l.c.l., dlvd. E	lb.	.13½-	—
tanks, dlvd. E	lb.	.11½-	—
Methylethyl ketone, dms., c.l., dlvd.	lb.	.10¼-	—
l.c.l., dlvd	lb.	.11	—
tanks, dlvd	lb.	.09	—
Methylhexyl ketone, tech., dms., works	lb.	60	—
Methylionone, A, cns	lb.	6.55	8.80
D, cns	lb.	7.50	- 9.55
prime, cns	lb.	4.55	6.40
Methylisobutyl carbinol (see Carbinol, methylisobutyl).			
Ketone, dms., c.l., dlvd	lb.	.12½-	—
l.c.l., dlvd	lb.	.13	—
tanks, dlvd	lb.	.11	—
Methylnaphthyl ketone, cns	lb.	3.00	- 3.75
Methylparaben (see Methylparahydroxybenzoate).			
Methylpentanediol (see Hexyleneglycol)			
Methylthionme chloride (see Methylene blue).			
Mica, dry-grd., paint, plastic, 300 mesh, bgs., c.l., works	lb.	.03¾-	—
roofing, 20 to 80 mesh, works	lb.	.03½-	—
wet-grd., biotite, bgs., c.l., works, frt. allo. E	lb.	.05½-	—
l.c.l., ex whse., or frt. allo. E	lb.	.06¼-	—
extra fine, bgs., c.l., works, frt. allo. E	lb.	.05½-	—
l.c.l., ex whse. or frt. allo. E	lb.	.06¼-	—
paint or lacq., bgs., c.l., works, frt. allo. E	lb.	.07	—
l.c.l., ex whse. or frt. allo. E	lb.	.07¾-	—
rubber, bgs., c.l., works, frt. allo. E	lb.	.06¾-	—
l.c.l., ex whse. or frt. allo. E	lb.	.07½-	—
wallpaper, bgs., c.l., works, frt. allo. E	lb.	.07	—
l.c.l., ex whse. or frt. allo. E	lb.	.07¾-	—
white, extra fine, bgs., c.l., works, frt. allo. E	lb.	.07	—
l.c.l., ex whse. or frt. allo. E	lb.	.07¾-	—
Mica, wet-grd., W. of Miss. R., W. of Rockies, 1c. higher.			½c. higher.
Milk powder, skimmed, roller, bbls., c.l.	lb.	.10½-	.13
spray, bbls., c.l.	lb.	.12½-	.14¼
Whole, roller, bbls., c.l.	lb.	.28	- .33
spray, bbls., c.l.	lb.	.28½-	.35¼
Sugar, crude, bgs., c.l., works	lb.	.16½-	—
edible, bbls., works, 30,000-lb. lots	lb.	.24	—
2,000-lb. lots	lb.	.24¾-	—
200-1,800-lb. lots	lb.	.25¼-	—
USP, bbls., works, 30,600-lb. lots	lb.	.26	—
2,000-lb lots	lb.	.26¾-	—
200-1,800-lb. lots	lb.	.27¼-	—
Molasses, blackstrap, tanks	gal.	.06	.06½
New Orleans, tanks	gal.	.06½-	—
Molybdate orange (see Orange molybdate).			
Mineral spirits (see Petroleum mineral spirits).			
Molybdenum metal, 99% Mo., powd., kgs	lb.	2.60	- 3.00
pure, kgs., works, basis Mo. content	lb.	.95	—
technical, kgs., works, basis Mo. content	lb.	.80	—
Monochlorobenzene, dms., c.l., works, frt. allo	lb.	.07	.08
l.c.l., works, frt. equald	lb.	.08	.10
tanks, works, frt. equald	lb.	.06	.06½
Monoethanolamine, dms., c.l., frt. allo. E	lb.	.27	—
l.c.l., same basis	lb.	.28	—
tanks, same basis	lb.	.25½-	—
Monoethylamine, dms., c.l., frt. allo. basis 100%	lb.	.21½-	—
l.c.l., same basis	lb.	.22½-	—
tanks, same basis	lb.	.20	—
Monomethylamine, 25%-40%, dms., c.l., works, basis 100%	lb.	.35	—
l.c.l., same basis	lb.	.35½-	.36
tanks, same basis	lb.	.31	—
Monomethylanilin, dms. works	lb.	.70	—
Monononylnaphthalene, dms., c.l., works	lb.	.14	—
l.c.l., works	lb.	.15	—
tanks, works	lb.	.13	—
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).			
Monosodium glutamate (see Sodium glutamate, monobasic).			
Phosphate (see Sodium phosphate, monobasic).			
Monotertiarybutylmetacresol, dms., c.l., works	lb.	.50	—
l.c.l., works	lb.	.51	—
tanks, works	lb	49	—
Morphine, cns.	oz.	12.35	-12.40
Acetate, cns.	oz.	9.85	9.90
Hydrobromide, cns.	oz.	9.80	—
Hydrochloride, NF, cns	oz.	9.90	—
Sulphate, USP, cns	oz.	9.90	—
Morpholine, dms., c.l., works	lb.	.59½-	—
l.c.l., works	lb.	.60	—
smaller containers, works	lb.	.75	—
tanks, works	lb.	.58	—
Mountain ash berries, bgs.	lb.	65	.75
Mullein flowers, cs.	lb	1.25	1.30
Leaves, bls.	lb.	.13	.16
Musk, sat., Tonquin, grains, bots.	oz.	25.00	-30.00
synthetic—Ambrette, 100 lbs.	lb.	5.40	—
25 lbs.	lb.	5.50	—
5 lbs.	lb.	5.65	—
Ketone, 100 lbs.	lb.	4.95	—
25 lbs.	lb.	5.05	—
5 lbs	lb.	5.20	—
Xylol, 100 lbs	lb.	1.60	—
25 lbs.	lb.	1.70	—
5 lbs	lb.	1.85	—
Musk root, bls	lb.	No prices.	
Mustard seed, Calif., brown, f.o.b. source	lb.	.07½-	.08
Danish, bgs., futures	lb.	.12	- .12½
Dutch, yellow, bgs., futures	lb.	.13¼-	.13½
English, yellow, bgs	lb.	.12½-	.13
Montana, brown, bgs., source	lb.	.05¾-	.06
Oriental, bgs., source	lb.	.07¼-	.07½
yellow, bgs., source	lb.	.11½-	.12
Washington, yellow, source, bgs	lb.	.12	.12½
Myrobalans, J1, assorted, ex dock.	ton.	62.00	-63.00
J2, ex dock	ton.	52.00	-53.00

N

Naphtha, painters (see Petroleum naphtha, V. M. & P.)			
Solvent (see S).			
Naphthalene, dom., crude, 74°, bgs., bbls., frt. equald	lb.	.06	—
tanks, same basis	lb.	.0525-	—
78°, bgs., c.l., works, frt. equald	lb.	.0635-	—
l.c.l., same basis	lb.	.0660-	—
bbls., c.l., same basis	lb.	.0635-	—
l.c.l., same basis	lb.	.0660-	—
78°, dms., c.l., same basis	lb.	.0750-	—
l.c.l., same basis	lb.	.08	—
tanks, same basis	lb.	.0575-	—
refined, industrial, bbls., c.l., frt. equald	lb.	.10	—
bgs., c.l., same basis	lb.	.10½-	—
tanks, same basis	lb.	.09	—
balls, flakes, wholesalers, jobbers, 50-lb. cs., c.l., same basis	lb.	.12¼-	—
bbls., c.l., same basis	lb.	.12	—
1-lb. pkgs., c.l., same basis	lb.	.14	—
imported, crude, 78°, 100 ton lots	lb.	.03½-	—
Neocinchophen, USP, dms., works	lb.	7.00	- 7.35
Nepheline syenite, glass, 24 mesh, bulk, Rochester, N. Y.	ton.	14.25	—
pottery, 200 mesh, bulk, Rochester, N. Y.	ton.	13.25	—
Nepheline syenite in bgs., $3 per ton higher than bulk.			
Nerolin, cns	lb.	2.00	2.25
Niacin (see Acid, nicotinic).			
Niacinamide (see Nicotinamide).			
Nickel acetate, bbls., dlvd.	lb	.30	—
Carbonate, bbls., dlvd.	lb.	.49	- .50
Chloride, bbls., dlvd	lb.	.23	—
Cyanide, bots., dms.	lb.	1.75	- 2.00
Formate, bbls., ton lots, dlvd.	lb.	.43½-	—
Metal, electro cathodes, cs.	lb.	.40	—
Nitrate, bbls., works	lb.	.24½-	.25½
Oxide, black, bbls	lb.	.42	—
Sulphate, bgs., c.l., dlvd.	lb.	.18	—
l.c.l., dlvd	lb.	.18½-	—
Nicotinamide, USP, dms., works	kilo.	11.00	-11.30
Hydrochloride, dms., works	kilo.	10.50	-10.80
Nicotinic sulphate, 40%, 50-lb. dms., dealers, frt. allo. over 50 lbs.	dm.	40.40	—
tins, 10 lbs., dealers, frt. allo. on cases of 6	tin.	10.05	—
Nikethamide, bots., cbys	lb.	5.50	- 6.60
Nitercake, bulk, works	ton.	No stocks.	
Nitrobenzene, cbl. dist., dms., c.l	lb.	.09	- .09½
l.c.l.	lb.	.10	- .11
tanks	lb.	.08	- .08½
Nitrocellulose, ester soluble, 30-35 cps., ¼, ½, 5-6, 15-20, 30-40, 60-80 and 125-175 secs., bbls., c.l., works, dry weight	lb.	.28	—
l.c.l., same basis	lb.	.29	- .31
18-25 cps., bbls., c.l., same basis	lb.	.30	—
l.c.l., same basis	lb.	.31	- .33
18-25 cps., 250-400 sec., and 600-1,000 secs., bbls., c.l., same basis	lb.	.32	—
l.c.l., same basis	lb.	.33	- .35
spirit-soluble, 30-35 cps, ¼, ½, 5-6 and 40-50 secs., bbls., c.l., same basis	lb.	.33	—
basis	lb.	.33	—
l.c.l., same basis	lb.	.34	- .36
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra, but returnable.			
Nitroethane, dms., works	lb.	.50	—
Nitrogen solution, tanks, works, N	ton.	120.00	-126.23
Nitrogenous process tankage, bulk, works, ammo., ship't unit-ton.		3.60	—
Sewage sludge, bulk, works, unit ton.		3.25	+ .40
Nitromethane, dms., l.c.l., works	lb.	.30	—
Nitropropane, 1, dms., works	lb.	.30	—
2, dms., works	lb.	.30	—
Nutgalls, Aleppo, bgs.	lb.	.43	—
Chinese, bgs.	lb.	.38	—
Istrian, bgs	lb.	.31	—
Nutmeg, East Indian, bgs.	lb.	.39	- .40
futures, bgs.	lb.	.38	- .39
West Indian, bgs.	lb.	.28	- .29
futures	lb.	.27	- .28
Nux vomica, bls.	lb.	.10	- .12
powdered, bbls., bxs	lb.	.13	- .14

O

Oakbark extract, 25% tannin, bbls., c.l., works	lb.	No stocks	
Octane, 100°-140° C, industrial grade, group 3, dms., c.l.	gal.	.19	—
l.c.l.	gal.	.21	- .60
tanks	gal.	.15½-	—
10° C, Bayonne, N. J., tanks	gal.	.16	—
Octanol, normal, tech., dms., c.l., dlvd.	lb.	.34½-	—
l.c.l., dlvd	lb.	.36½-	—
tanks, dlvd	lb.	.32	—
Oil, abies siberica, cns.	lb.	4.00	- 4.60
Almond, artificial, bitter, (see Benzaldehyde)			
natural, bitter, F.P.A., bots.	lb.	3.40	- 5.00
NF, bots	lb.	3.25	- 3.50
Sweet, dms., cns.	lb.	.70	- .95
Amyris, dms	lb.	1.55	- 1.95
Angelica root, bots.	lb.	120.00	-190.00
Seed, bots	lb.	80.00	-100.00
Anilin (see A).			
Anise, USP, Chinese, dms.	lb.	.93	- 1.45
Apricot kernel, USP, dms.	lb.	.42	- .60
Avocado, cns., dms	lb.	1.00	1.10
Babassu, crude, tankcars	lb.	.18	—
Bay, NF, Puerto Rican, 50-55%, cns	lb.	1.20	1.50
55-30%, cns.	lb.	1.20	1.60
West Indian, 50-55%, cns.	lb.	1.20	1.60
Bergamot, artif., cns.	lb.	2.00	4.25
natural, Italian, cns.	lb.	4.40	- 5.00
Birchtar, crude, cns.	lb.	.95	- 1.76
rectified, NF, cns.	lb	4.15	- 4.25

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...says Mr. fatty acid

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★ ★ ★

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For years they have been pretty well resigned to the sad fact that most alkyds darken in cooking . . . lose up to three or four colors in the finished product. For example: an alkyd made from an acid with a Gardner Color of 3-4 may wind up with a Gardner of 7-8.

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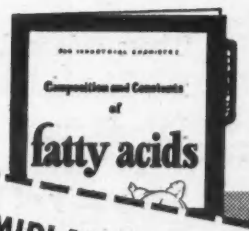

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☐ Technical Bulletin No. 79—"Alkyds from Fatty Acids". (This includes Section B).

Name_____

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Oil, Bois de Rose—Oil, Sandalwood

Oil, bois de rose, Brazil ..... lb. 2.75 - 2.85
Mexican (see Oil, lignaloe wood).
Bone, dms., works ..... gal. .65 - .70
Cajeput, tech., dms ..... lb. 1.65 - 2.00
redistilled, USP, cns ..... lb. 2.20 - 4.50
Calamus, cns ..... lb. 20.00 -23.00
Camphor, natural, white, cns ..... lb. .30 - .50
dms. ..... lb. .25 - .50
Cananga, native, cns ..... lb. 2.75 - 3.55
rectified, cns ..... lb. 3.50 - 4.55
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns ..... lb. 3.65 - 6.50
Cardamom, NF, bots ..... lb. 54.00 -70.00
Cassia, USP, cns ..... lb. 1.80 - 3.00
Castor, blown, dms., c.l. ..... lb. .20¼- —
dms., l.c.l. ..... lb. .20¾- —
standard, USP, dms., c.l. ..... lb. .18¼- —
l.c.l. ..... lb. .18¾- —
tanks ..... lb. .17¼- —
refined and deodorized, dms., c.l. ..... lb. .19¾- —
l.c.l. ..... lb. .20¼- —
tankcars ..... lb. .18¾- —
dehydrated, bodied, dms., c.l. ..... lb. .22 - —
l.c.l. ..... lb. .22½- —
tanks ..... lb. .21 - —
unbodied, dms., c.l. ..... lb. .21 - —
l.c.l. ..... lb. .21½- —
tanks ..... lb. .20 - —
hydrogenated, dms., c.l., works ..... lb. .28 - —
l.c.l., same basis ..... lb. .29 - —
No. 3, tech., dms., c.l. ..... lb. .17 - —
l.c.l. ..... lb. .17½- —
tanks ..... lb. .16 - —
sulphonated, 50% (48% fat), dms ..... lb. .12 - .13
75% (60-62% fat), dms ..... lb. .15¾- .16¼
Cedarleaf, USP, cns., dms ..... lb. 1.65 - 2.85
tech., dms ..... lb. 1.70 - 1.80

Oil, cedarwood, cns ..... lb. .40 - .55
dms. ..... lb. .34 - .50
Celeryseed, bots. ..... lb. 15.00 -17.00
Chaulmoogra, NF, cns., dms ..... lb. .55 - .70
Chinawood (see Oil, tung).
Cinnamon bark, bots ..... lb. 27.00 -60.00
Leaf, Ceylon ..... lb. 1.50 - 1.75
Seychelle ..... lb. 1.35 - —
Citronella, Ceylon, cns ..... lb. .95 - 1.50
Java type, cns ..... lb. 1.70 - 2.10
Clove, USP, from Madagascar buds, cns., dms ..... lb. 1.45 - 1.85
from Zanzibar, buds, cns., dms. ..... lb. 1.70 - 2.20
Coconut, crude, tanks, Atlantic ports ..... lb. .15½- —
Pac. Coast ..... lb. .14¼- .14½
refined, Cochin type, tax incl., dms., l.c.l. ..... lb. .21½- —
deodorized, tax incl., dms., l.c.l. ..... lb. .23 - —
Cod, Newfoundland, dms ..... lb. .09 - .09½
Codliver, USP, dms ..... gal. 1.50 - 1.60
Coriander, bots ..... lb. 29.00 -35.00
Corn, crude, tanks, works ..... lb. .09⅝- .09¾
foots, acid, 95%, tanks, dlvd. E ..... lb. .03¾- —
raw, 50%, tanks, dlvd. E ..... lb. .01¼- —
refined, dms., New York ..... lb. .15¼- .15¾
tanks ..... lb. .13¼- —
Costus, bots. ..... oz. 35.00 - —
Cottonseed, crude, tanks, Southeast and Valley ..... lb. .09¼- .09⅜
foots, acid 95%, tanks, dlvd. E ..... lb. .03½- —
raw, 50%, tanks, dlvd. E ..... lb. .01¼- —
refined, dms. ..... lb. .15¼- .15¾
tankcars ..... lb. .13¼- —
Creosote (see Creosote, coaltar).

Oil, croton, NF, cns ..... lb. 4.75 - 5.50
Crude (see Petroleum, crude).
Cubeb, cns. ..... lb. 7.00 - 7.50
Cumin, bots. ..... lb. 6.25 -11.50
Cypress, bots. ..... lb. 11.00 -15.00
Degras (see D).
Dillseed, bots ..... lb. 6.75 - 9.50
Dillweed, bots., dms ..... lb. 5.65 - 7.50
Dip (see D).
Erigeron, cns ..... lb. 5.00 - 5.25
Eucalyptus, rectified, USP, 80-90%, cns ..... lb. .70 - 1.45
70-80%, cns ..... lb. .58 - 1.30
Fennel, sweet, cns ..... lb. 2.50 - 3.00
Fir, Canada, cns ..... lb. 1.85 - 1.95
Fishliver, crude, for feeds or concentrating, 6,000 to 12,000 A units, dms ..... dms., 1,000,000 units. .13 - .14
15,000 to 20,000 A units, dms .. 1,000,000 units. .14¼- .14½
25,000 to 35,000 A units, dms .. 1,000,000 units. .16¼- .17½
40,000 to 55,000 A units, dms .. 1,000,000 units. .18 - .18½
prime, natural, or concentrate, 100,000 A units, dms ..... 1,000,000 units. .24 - —
200,000 A units, dms ..... 1,000,000 units. .28 - —
300,000 A units, dms ..... 1,000,000 units. .31 - —
400,000 A units, dms ..... 1,000,000 units. .33 - —
500,000 A units, dms ..... 1,000,000 units. .36 - —
Prices of crude fishliver oils are based on E-x-2000 (International) factor. Prices on prime oil and concentrates are based on E-x-1894 (USP) factor.
Fuel (see Petroleum fuel oil).
Fusel (see F).
Garlic, pure, bots ..... oz. 9.00 - —
Gaultheria (see Oil, wintergreen).

Oil, geranium, Algerian, cns ..... lb. 10.50 -12.60
Bourbon, cns. ..... lb. 12.50 -14.25
Turkish (see Oil, palmarosa).
Ginger, dist., bots ..... lb. 21.00 -28.00
Grapefruit ..... lb. .80 - 1.25
Grease, No. 1, dms ..... lb. .11½- .12
extra, Winter, strained, dms ..... lb. .12¾- .13¼
prime, burning, dms ..... lb. .14¼- .14¾
Guaiacwood, cns ..... lb. 1.85 - 2.15
Hemlock, cns ..... lb. 1.65 - 2.75
Herring, crude, tanks, Pac. coast. ..... lb. No prices.
Juniper berry, NF VIII, bots ..... lb. 3.00 - 7.00
twice rectified ..... lb. 4.75 - 5.00
Tar, USP (see Juniper tar).
Wood, tech., cns ..... lb. .65 - 1.00
Lard (see Oil, grease).
Laurel, bots. ..... lb. 9.75 -12.50
Lavandin, cns. ..... lb. 1.20 - 1.85
Lavender flower, French, 40-42% ester, cns ..... lb. 4.35 - 5.15
38-42% ester, cns ..... lb. 3.20 - 5.15
30-32% ester, cns ..... lb. 2.20 - 3.25
Spike, Spanish, cns ..... lb. .90 - 1.60
Lemon, USP, Calif., cns ..... lb. 2.75 - 3.00
Messina ..... lb. 2.50 - 5.00
terpeneless, bots ..... lb. 32.00 -65.00
Lemongrass, cns., dms ..... lb. 2.25 - 3.00
Lignaloe seed, Mexican, cns ..... lb. 4.50 - 4.80
Wood, Brazilian (see Oil, bois de rose).
Mexican, cns. ..... lb. 2.75 - 5.20
Lime, distilled, Mexican, cns ..... lb. 6.05 - 6.75
West Indian, cns ..... lb. 6.15 - 7.50
expressed, West Indian, cns ..... lb. 6.75 -10.50
terpeneless, bot ..... lb. 58.00 -65.00
Linseed, raw, dms., c.l., Zone 3 ..... lb. .1850- —
l.c.l. ..... lb. .1910- .1950
tankcars ..... lb. .1730- —
tankwagon ..... lb. .1760- —
Boiled linseed oil .007 higher than raw.
Lubricating, at refinery, ex tax, Group 3, bright stock, 150-160 vis., 10-25 p.p. tanks. ..... gal. .285 - —
neutral, 300 vis., No. 3, col., 0.10 pour, tanks ..... gal. .21 - .22
200 vis., No. 3, col., 15-25 pour, tanks ..... gal. .18 - .19
145-155 vis., No. 3, color, 10-25 pour, tanks ..... gal. .285 - —
Penna., W, cylinder, 600-680 flash, tanks ..... gal. .33 - .38
600-650 steam refd., tanks. ..... gal. .37 - —
neutral, 70°F, No. 3 color, 150 vis., 25 pour, tanks. ..... gal. .37 - .39
200 vis., 23 pour, tanks. ..... gal. .39 - .41
South Texas, neutral, pale, 200 vis., 2¼-4 pour, tanks. ..... gal. .11 - .12
red, 200 vis., 4-6½ pour, tanks ..... gal. .11 - .12¼
Mace, dist., cns., dms ..... lb. 3.55 - 4.35
Mandarin, Brazilian, cns ..... lb. 4.00 - 9.25
Italian, cns ..... lb. 6.75 - 9.75
Menhaden, crude, tanks, Balto. ..... lb. .05½ Nom.
refined, alkali, dms ..... lb. .1180- —
kettle-bodied, dms ..... lb. .1330- —
light-pressed, dms ..... lb. .1080- —
tanks ..... lb. .0920- —
Mineral, white (see Oil, white, mineral).
Mirbane (see Nitrobenzene).
Mustard, synthetic, USP, cns ..... lb. 1.40 - 1.70
Seed, expressed, dms ..... lb. .19½- .20
Neatsfoot, 15°, dms ..... lb. .28 - .28½
20°, dms. ..... lb. .27 - .27½
30°, dms. ..... lb. .21 - .21¼
Neroli, French, bots ..... lb. 75.00 -390.00
Haitian, bots ..... lb. 175.00 -200.00
Niaouli, cns ..... lb. 2.30 - 3.25
Nutmeg, dist., East Indian, cns., dms ..... lb. 3.55 - 4.35
West Indian, cns., dms ..... lb. 3.55 - 3.85
Ocotea cymbarum, dms ..... lb. .48 - .80
Oiticica, liquid, dms ..... lb. .24 - .25
Oleo, extra, tres ..... lb. .15½ Nom.
Olibanum, bots ..... lb. 4.50 - 7.65
extra fine, bots ..... lb. 6.25 -10.50
Olive, commercial, dms ..... gal. 1.85 - 2.00
edible, Spanish, dms., duty-paid ..... gal. 2.70 - 2.80
Moroccan, dms., duty-paid. ..... gal. 2.60 - 2.70
foots, dms ..... lb. .13½- .15
Orange, sweet, natural, dist., cns., ... lb. .25 - .60
expressed, USP, Brazilian, cns ..... lb. .50 - 1.25
Calif., cns. ..... lb. .60 - 1.00
Florida, cns., dms ..... lb. .42 - 1.00
Messina, coppers ..... lb. 3.25 - 5.00
West Indian, cns ..... lb. 2.25 - 3.75
sesquiterpeneless, bots ..... lb. 55.00 -135.00
Origanum, Spanish, cs ..... lb. 2.40 - 3.50
Palm, Congo, dms ..... lb. .1110- —
tankcars ..... lb. .10⅛- —
Palmarosa, cns ..... lb. 6.25 - 9.00
Palmkernel, crude, bulk, c.i.f. NY ..... lb. No prices.
Paraffin, pale, 100-110 vis. at 100° F, tanks, East Coast refinery ..... gal. .11½- —
Patchouli, dms ..... lb. 13.50 -20.00
Peach kernel, USP (see Oil, apricot kernel).
Peanut, crude, tanks, Southeast. ..... lb. .09⅝- —
foots, acid, 95%, tanks, dlvd. E ..... lb. .03½ Nom.
raw, 50%, tanks, dlvd. E ..... lb. .01¾ Nom.
refined, dms ..... lb. .15¾- .16¼
tanks, New York ..... lb. .13¼- —
Pennyroyal, USP, dom., cns ..... lb. No stocks.
imported, cns ..... lb. 4.60 - 5.50
Peppermint, natural, dms ..... lb. 5.15 - 6.00
redist., USP, dms ..... lb. 5.45 - 6.30
Persic, USP (see Oil, apricot kernel).
Perilla, crude, cms ..... lb. No stocks.
Petitgrain, Paraguay, cns ..... lb. 2.15 - 2.80
Pimento berry, dms ..... lb. 3.85 - 6.00
leaf, cns ..... lb. 1.55 - 1.95
Pine, dest.-dist., dms., incl., c.l., works, South ..... gal. .55 - —
l.c.l., works, South ..... gal. .56 - —
ex whse., N. Y. C ..... gal. .67 - —
tanks, works, South ..... gal. .45 - —
steam-dist., dms., ex whse., non-ret. dms., incl., l.c.l., ex whse., N.Y.C. ..... lb. .09½- —
Pineneedle, Siberian (See oil, abies siberica).
Putty, petroleum, heavy, dms. ..... gal. .18 - —
tankwagon ..... gal. .13½- —
light, dms ..... gal. .16½- —
tankwagon ..... gal. .12½- —
Rapeseed, tankcars ..... lb. .16½ Nom.
Red, single dist., dms ..... lb. .12¼- .13¼
tanks ..... lb. .11 - —
saponified, dms ..... lb. .11½- .12½
double dist., dms ..... lb. .14¼- .15¾
tanks ..... lb. .13½- —
Rose, natural, Bulgarian, coppers ..... oz. 25.00 -35.00
Rosemary, Spanish, tech., cns., dms ..... lb. .90 - 1.50
USP, cns., dms ..... lb. 1.05 - 1.60
Rosin, first rectified, dms ..... gal. .66 - —
2d rectified, dms ..... gal. .68 - —
3d rectified, dms ..... gal. 78 - —
Rue, bots ..... lb. 3.25 - 5.00
Sage, clary, bots. ..... lb. 13.50 -16.00
Dalmatian, cns. ..... lb. 4.00 - 5.50
Spanish, cns. ..... lb. .85 - 3.50
Sandalwood, NF, cns ..... lb. 12.25 -16.30

V-C

elemental

PHOSPHORUS

VIRGINIA-CAROLINA CHEMICAL CORPORATION has doubled its capacity to produce elemental phosphorus by the electric furnace process at Nichols, Florida, and construction of new V-C furnace operations at Charleston, South Carolina, will be completed in the spring of 1950.

These enlarged production facilities, together with V-C's major raw material resources, assure a greatly increased output of V-C Phosphorus to meet the growing demand for this basic chemical.

The purity of V-C Phosphorus surpasses all known specifications for this product. V-C Phosphorus is available for shipment in tank cars . . . or in steel drums for shipment by rail or water.

VIRGINIA-CAROLINA CHEMICAL CORPORATION • Chemicals Division: *401 East Main St., Richmond 8, Virginia*

PHOSPHORUS
PHOSPHORIC ACIDS
85% N.F. Grade • 85% Technical Grade
75% Food Grade • 50% Food Grade • 62½% Commercial Grade
SODIUM PHOSPHATES
Disodium Phosphate (*Technical and Drug Grades*)
Trisodium Phosphate • Tetrasodium Pyrophosphate
Sodium Tripolyphosphate
CALCIUM PHOSPHATES
Monocalcium Phosphate • Lucky Leaven® Phosphate
Phosphate Paste

VC CHEMICALS ®

Oil, sardine, crude, tanks, Pac. coast lb. .06 - —
refined, alkali, dms. lb. .1180- —
kettle-bodied, dms. lb. .1330- —
light-pressed, dms. lb. .1080- —
tanks lb. .0920- —
Sassafras, artificial lb. .44 - .65
natural, Brazilian (see Oil, ocotea cymbarum).
domestic, USP, cns., dms. lb. 1.80 2.30
Savin, cns lb. 2.50 - 2.75
Savory, cns lb. 3.00 —
Seal, 2% acid, duty extra, dms lb. .13 - —
Sesame, ref., dms., l.c.l. lb. .41 - —
Shingle stain, bbls., c.l., works gal. .2185- —
l.c.l., works gal. .25 - .29
tanks, works gal. .15 - 16
Snakeroot, Canada, cns lb. 18.75 -25.00
Soybean, crude, tanks, mills lb. .09½- —
foots, acid, 95%, tanks, dlvd. E. lb. .04½ Nom.
raw, 50%, tanks, dlvd. E. lb. .02 - —
refined, alkali, dms., c.l. lb. .13¼ -
l.c.l. lb. .1335- .1385
tanks lb. .12 - —
clarified, dms., c.l. lb. .1170- —
l.c.l. lb. .1235- .1285
tanks lb. .11 - —
edible, dms. lb. .13¾- .14¼
tanks lb. .12¼- —
Spearmint, dms lb. 3.10 - 4.10
Sperm, bleached, winter, 45°, tank-cars lb. .1520- —
drums lb. .1620- .1670
natural winter 45°, tankcars lb. .14 - —
drums lb. .15 - .15½
Spruce, cns., dms lb. 1.65 - 2.75
Sunflower-seed, unp., refined, tanks lb. No prices.
semi-refined, tanks lb. No prices.
Sweet birch, Northern, cns lb. 4.50 - 7.50
Southern, cns. lb. 1.95 - 3.65
Tall, crude, tanks, works ton. 40.00 —
refined, dms., c.l., works lb. .06 - —
l.c.l., works lb. .06¼- —
tanks, works lb. .05 - —
Tallow, acidless, dms lb. .11 - .11¾
Tansy, dms. lb. 8.75 - 9.00
Tar, pine, coml., dms., incl., c.l., works, South lb. .045 - —
l.c.l., works, South lb. .0473- —
whse., N.Y.C. lb. .0995- —
tanks, works, South lb. .035 - —
rectified, NF, l.c.l., dms., incl., works, South gal. .60 —
Tar acid (see T).
Teaseed, dms. lb. No stocks.
Theobroma (see Cocoa butter).
Thyme, NF, red, cns lb. 2.05 3.35
white, cns lb. 2.30 - 3.00
technical, white, cns lb. .35 1.00
Tung, dom., tanks, mills lb. .26 Nom.
imported, dms., c.l. lb. .27½- —
l.c.l. lb. .28 - —
tanks lb. .26 - —
Turkey red (see Oil, castor, sulphonated).
Turpentine, rectified, NF, cns., dms lb. 35 55
Vetiver, Bourbon, cns lb. 12.60 -15.00
Haitian, cns lb. 10.00 -15.00
Java, cns lb. 12.00 -15.00
Whale, ref., natural, dms lb. No stocks.
Winter-bleached, dms lb. No stocks.
Wheat germ, dms gal. 10.00 13.50
White mineral, tech., 50-65 vis., dms., c.l., N. Y. gal. .43 - —
l.c.l., same basis gal. .48 - —
65-75 vis., dms., same basis, gal. .44 - —
l.c.l., same basis gal. .49 - —
USP, 80-90 vis., dms., c.l., same basis gal. .45 - —
l.c.l., same basis gal. .50 - —
125-135 vis., dms., c.l., same basis gal. .53 - —
l.c.l., same basis gal. .58 - —
145-155 vis., dms., c.l., same basis gal. .60 - —
l.c.l., same basis gal. .65 - —
175-185 vis., dms., c.l., same basis gal. .62 - —
l.c.l., same basis gal. .67 - —
200-210 vis., dms., c.l., same basis gal. .65 - —
l.c.l., same basis gal. .70 - —
335-345 vis., dms., c.l., same basis gal. .69½- —
l.c.l., same basis gal. .74½- —
Wintergreen, nat., Northern, cns. lb. 7.00 -14.50
Southern, cns lb. 3.65 - 8.50
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, NF, cns lb. 3.45 - 4.25
Wormwood, cns lb. 6.40 - 7.50
Ylang-ylang, Bourbon, bots lb. 7.00 - 8.25
extra, bots. lb. 10.00 -11.00
Madagascar, bots lb. 6.25 - 6.75
Olein, crude (see Oil, red).
white, low titre, dms lb. .14¾- .15¾
tankcars lb. .13½- —
Oleostearin, bbls. lb. .09½- .10
Olivine, aggregate, c.l., mines ton. 7.00 9.50
crushed, 8 mesh, bulk, c.l., works ton. 10.00 —
paper, bgs., c.l., works ton. 12.00 —
Opium, USP, cns. lb. 19.20 -19.45
gran., USP, cns. lb. 21.65 -21.90
powd., USP, cns. lb. 21.65 -21.90
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies lb. 1.10 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul lb. .32 - —

Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1¼c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex.; 1½c. El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

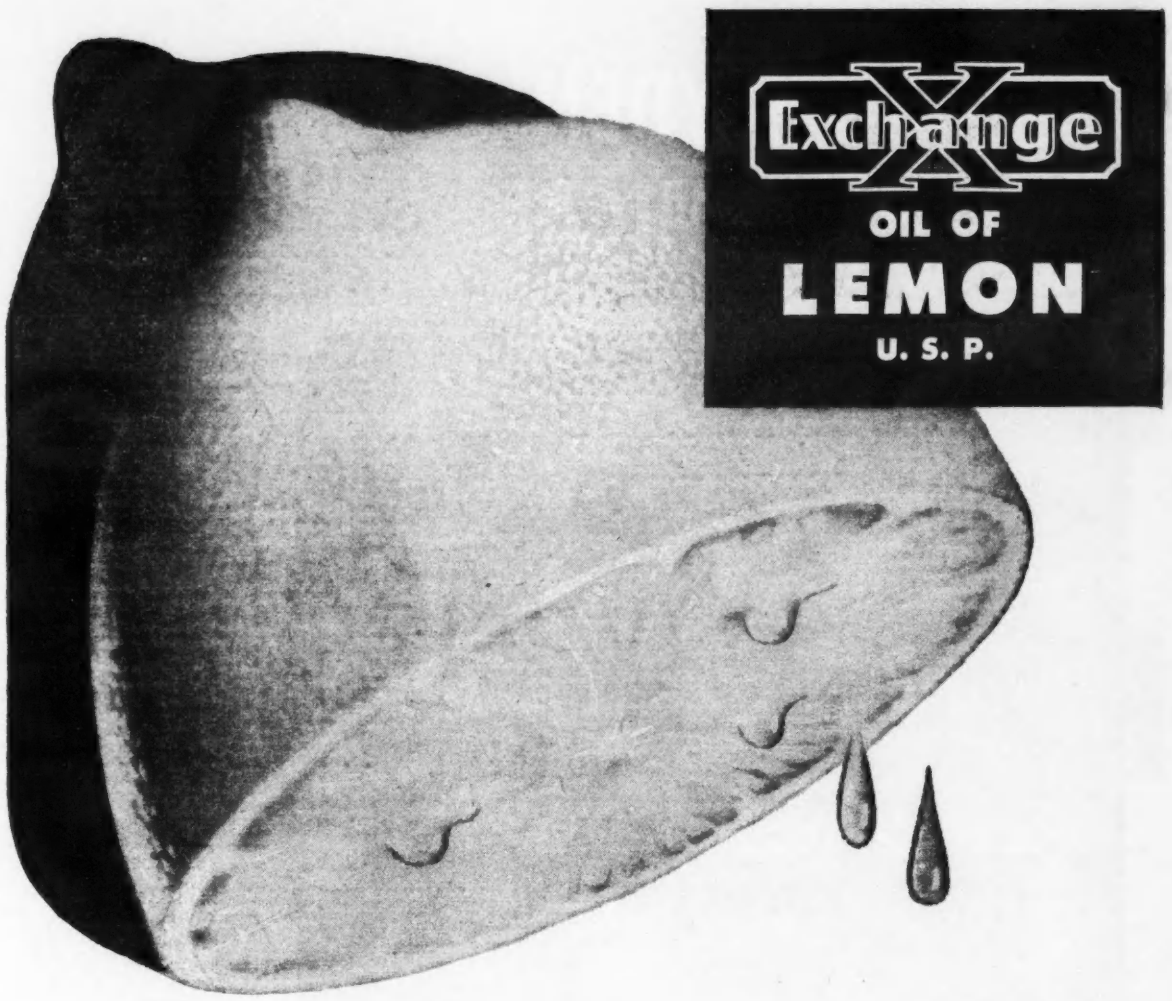
Chrome dinitroanilin toner lb. 1.15 - —
Mineral, American, bbls., l.c.l., ship't point, frt. alld. lb. .1860- —
Molybdate lb. .44 - —
Persian, bbls lb. .30 - .45
Orange flowers, nls lb. .40 .45
Orange peel, bitter, Haitian, bls lb. .13 - .15
Sweet, bls lb. .13 - .17
Oregano, Mexican, bgs lb. .11 - .11½
Portuguese, bgs lb. .18 - .18½
Sicilian, bgs lb. .16 - .17
Orris root, Florentine, bls lb. .20 - .25
powdered, bbls., bxs lb. .26 - .29
Verona, bls lb. .16 - .21
powdered, bbls., bxs lb. .22 .23
Orthoaminobiphenyl, dms., c.l., works lb. .32½- —
l.c.l., same basis lb. .33 - —
tanks, same basis lb. .31 - —
Orthoamylphenol, dms., l.c.l., works lb. .42 - —
Orthoanisidin bbls lb .80 —
Orthochloroanilin, dms., 10,000 lbs. or more lb. 60 —
smaller lots lb 62 .67
Orthochloroparanitroanilin, dms., works lb. 65½ .70
Orthochlorophenol, dms., c.l., frt. equald lb 27 —
l.c.l., same basis lb. .28 - —
Orthocresol, pure, 30° C, non-ret., dms., c.l., frt. equald. lb 1930 2405
l.c.l., same basis lb. 1960 2435
ret. dms., c.l., same basis lb. 1900 —
l.c.l., same basis lb. 1930 —
Orthocresol, pure, 29° C, non-ret. dms., c.l., same basis lb. .1830- .2305
l.c.l., same basis lb. .1860- .2335
ret. dms., c.l., same basis lb. .1800- —
l.c.l., same basis lb. .1830- —
25 to 27° C, non-ret. dms., c.l., same basis lb. .1630- .2030
l.c.l., same basis lb. .1660- .2110
tanks, same basis lb. .1500- .1950
Orthodichlorobenzene, 50-lb. cns lb. .12½- —
100-lb. cns lb. .11½- —
dms., c.l., works, frt. alld. E. of Rockies lb. .08½- —
l.c.l., same basis lb. .09½- —
tanks, same basis lb. .07 - —
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher
Orthoisopropyl N-phenylcarbanate (see IPC).
Orthoisopropylphenol, dms., c.l. lb. .29 - —
l.c.l. lb. .30 - —
tanks lb. .28 - —
Orthonitroanilin, dms lb. .50 .53
Orthonitrochlorobenzene, dms. lb. .17 .18
Orthonitrobiphenyl, tech., dms., c.l., works lb. .19½- —
l.c.l., works lb. .20 - —
tanks, works lb. .18 - —
Orthonitroparachlorophenol, cns lb. .75 - —
Orthonitrophenol, dms lb. .66 .77
Orthonitrotoluene, dms. lb. .12 - —
Orthophenetidin, dms., works lb. .90 - —
Orthotoluidin, dms., c.l., works lb. .19 - —
l.c.l., same basis lb. .20 - —
tanks, same basis lb. .18 - —
Orthotolidin, distilled, kgs lb. 1.10 - —
Osage orange crystals, bbls., l.c.l lb. .33½- —
extract, liquid, bbls., l.c.l lb. .15½- —
Ouabaine, USP, nots gram 3.00 4.00
Ox gall, conc., gran., fib. dms., 5 lbs. and up lb. 2.50 - —
Oxyquinolin sulphate, cns., 100 lbs. works lb. 4.25 - —
smaller lots, works lb. 4.30 - 5.00

P

Pancreas substance, assay 1:75 lb. 5.75 6.25
Pancreatin, USP lb. 2.50 3.00
Panthenol, bots., works, frt. adjust. kilo 90.00 —
Papain, powd., NF, cs lb. 1.75 - 2.50
Papaverine, natural or synthetic, hydrochloride, USP, cns., 1,000-oz lots oz. 5.00 —
smaller lots oz. 5.05 5.20
Sulphate, cns oz. 7.10 7.35
Paprika, Chilean, bgs lb. 22 .24
Portuguese, bgs lb. .39 .40
Spanish, bgs lb. .41 .43
Para-anisidin, dms., works lb. 80 —
Parachlorophenol, dms., c.l., frt. equald lb. 27 —
l.c.l., same basis lb. .28 - —
Parachloroanilin, dms., frt. alld. E. Miss lb. .70 —
Parachloro-orthonitroanilin, dms lb. No stocks.
Paracresol, 98%, dms., works lb. .50 .65
Paracymene, dms., works, 50 gals. or more gal. 2.50 —
smaller quantities gal. 3.00 - —
Paradibromobenzene, bgs., 500-lb. lots
Paradichlorobenzene, dms., c.l., works lb. .11 - —
l.c.l., same basis lb. .12½- .14
Paraffin, crude, scale, white or yellow, 118-120 ASTM, bbls., c.l., refinery lb. No prices.
121-123 ASTM, bbls., c.l., ref'y lb. No prices.
126-128 ASTM, bbls., c.l., ref'y lb. No prices.
Paraffin, fully ref'd, slabs, 120-122 ASTM, loose, c.l., ref'y lb. .0635- —
122-124 ASTM, loose, c.l., ref'y, lb. .0633- —
125-127 ASTM, loose, c.l., ref'y, lb. .0633- —
128-130 ASTM, loose, c.l., ref'y, lb. .0640- —
130-132 ASTM, loose, c.l., ref'y, lb. .0645- —
132-134 ASTM, loose, c.l., ref'y, lb. .0660- —
135-137 ASTM, loose, c.l., ref'y lb. .0793- —

Paraffin prices in bgs. and ctns., 7/10c per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher, and under 1,000 lbs., 3.7c per lb higher.

Paraformaldehyde, 94-95%, powd., dms., c.l., works lb. .13 - —
10,000 lbs. to c.l., works lb. .14 - —
1,000-10,000 lbs., works lb. .15 - .18
1,000 lbs., works lb. .17 - —
100 lbs., works lb. .20 - —
91-92%, flake, fib. dms., c.l., works lb. .11 - —
10,000 lbs. or more, works lb. 12 - —
smaller lots, works lb. .13 - —
Paraldehyde, tech., 98%, 55 gals., dms., l.c.l., works lb. .12½ .13¼
5-10-gal. dms., l.c.l., works lb. .16½ —
tanks, works lb. .11 —
USP, cbys lb. .51 .53
Paranitroanilin, kgs., works lb. 44½ —
Paranitrochlorobenzene, kgs., works, lb. .18 - —
Paranitrophenol, kgs., works, frt. equald lb. .40 - —
Paranitrotoluene, kgs., works lb. .30 - —



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When it's *lemon* you want, Exchange is the Oil!

More than 80% of all the lemon oil used in the United States is Exchange Lemon Oil. This overwhelming endorsement by the trade is your assurance that Exchange Lemon Oil delivers *flavor . . . clarity* and *uniformity* not found in any other Lemon Oil.

Always specify it by the brand name when you order — Exchange Oil of Lemon. And to insure your satisfaction, accept no other brand.

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PRODUCTS DEPARTMENT, ONTARIO, CALIF.

Producing Plant:
EXCHANGE LEMON PRODUCTS CO., CORONA, CALIF.

Paraphenetidin—Petroleum Solvent

Paraphenetidin, dms., works	lb.	.80	—
Paraphenylphenol, bgs., works	lb.	.28	.29
Paraphenylenediamine, crude, dms., works	lb.	.77	—
redistilled, dms., works	lb.	2.00	—
technical, refined, dms., same basis	lb.	1.25	1.35
Paratertiarybutylphenol, bgs., c.l., frt. equald	lb.	.21	—
l.c.l., same basis	lb.	.22	—
Parathion, tech., dms., works	lb.	1.50	2.50
Paratoluenesulphonamide, bbls., works	lb.	.70	—
Paratoluidin, bbls., works	lb.	.55	—
Pareira brava root, whole, bgs	lb.	.30	.31
ground, bxs	lb.	.35	.37
powder, bxs	lb.	.38	.40
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. E	lb.	.31	—
l.c.l., same basis	lb.	.32	.33
Passion flower herb, bls	lb.	.40	.45
Patchouli leaves, bls	lb.	.40	.45
Peanut meal, 45%, sacked, mills	ton.	58.00	59.00
Pectin, citrous, NF, powd., bbls	lb.	2.05	2.06
tech., powd., bbls	lb.	1.42	1.43
Penicillin, amorphous, calcium, USP, bulk, 100,000,000 to 25,000,000,000 unit lots	100,000 units.	.04	.05¼
Sodium, USP, unlabeled vials, 100,000 units	vl.	.09½	—
200,000 units	vl.	.14	—
500,000 units	vl.	.29	—
1,000,000 units	vl.	.56	—
Crystalline, potassium, unlabeled; vials, 100,000 units	vl.	.102	—
200,000 units	vl.	.15½	—
500,000 units	vl.	.34	—
1,000,000 units	vl.	.67½	—
Penicillin, crystalline, bulk, 100,000,000 to 25,000,000,000 unit lots	100,000 units.	.04½	.05¾
Procaine, regular or pulverized, bulk, 100,000,000 to 25,000,000,000 unit lots	100,000 units.	.05¼	.06½
Sodium, unlabeled vials, 100,000 units	vl.	.10¾	—
200,000 units	vl.	.16	—
500,000 units	vl.	.35	—
1,000,000 units	vl.	.68½	—
bulk, 100,000,000 to 25,000,000,000 unit lots	100,000 units.	.05¼	.06½
Pennyroyal leaves, bls	lb.	.28	.30
Pentachlorophenol, dms., works	lb.	.20	.25
Pentaerythritol, tech., bgs., c.l., works	lb.	.29	—
l.c.l., works	lb.	.31	.33
Di and tri-isomers (see Dipentaerythritol and Tripentaerythritol).			
Pentane, industrial, tanks, group 3	gal.	.10½	.11¼
Pepper, black, bgs	lb.	1.30	1.31
Dec. arrival, bgs	lb.	No prices.	
Dec. shipment, bgs	lb.	No prices.	
Dec.-Jan. shipment, bgs	lb.	No prices.	
Red, Carolina, source	lb.	.48	.49
Hontaka, bgs., futures	lb.	.65	.66
Louisiana longs, bgs	lb.	.18	Nom.
Niger, capsicum, bgs	lb.	.38	Nom.
birdseye, bgs.	lb.	.65	Nom.
White, bgs	lb.	2.40	2.45
Peppermint, USP, dom., bls	lb.	.50	.70
imported, bls	lb.	.80	.90
Pepsin, NF, bulk containers	lb.	3.90	—
Perchloroethylene, dms., c.l., zone 1, works, frt. alld	lb.	.11	—
zone 2, same basis	lb.	.11½	—
zone 3, same basis	lb.	.12	—
zone 4, same basis	lb.	.12	—
l.c.l., zone 1, same basis	lb.	.11¾	—
zone 2, same basis	lb.	.12¼	—
zone 3, same basis	lb.	.12¾	—
zone 4, same basis	lb.	.12¾	—
tanks, zone 1, same basis	lb.	.10½	—
zone 2, same basis	lb.	.11	—
zone 3, same basis	lb.	.11½	—
zone 4, same basis	lb.	.11½	—

Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N D., Okla., S. C., S. D.; (3) Colo., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont., (W), Nev., Ore., Utah, Wash.

Peru balsam, dms	lb.	.85	1.00
Petrolatum, USP, amber, dms., c.l., New York	lb.	.04½	—
l.c.l., same basis	lb.	.05¾	—
Cream, dms., c.l., same basis	lb.	.06½	—
l.c.l., same basis	lb.	.08	—
Extra amber, dms., c.l., same basis	lb.	.05½	—
l.c.l., same basis	lb.	.06	—
Petrolatum, USP, white, lily, dms., c.l., same basis	lb.	.06½	—
l.c.l., same basis	lb.	.08¼	—
snow, dms., c.l., same basis,	lb.	.07½	—
l.c.l., same basis	lb.	.08½	—
soft, dms., c.l., same basis	lb.	.06¾	—
l.c.l., same basis	lb.	.07½	—
Yellow, soft, dms., c.l., same basis	lb.	.05	—
l.c.l., same basis	lb.	.05⅞	—

Petroleum, crude, bulk, at wells, California	bbl.	1.25	2.90
Illinois	bbl.	2.45	2.87
Kentucky	bbl.	2.42	2.83
Louisiana-Arkansas	bbl.	2.48	2.90
Montana	bbl.	1.28	2.775
Oklahoma-Kansas	bbl.	2.23	2.45
Pennsylvania, lower field	bbl.	3.40	—
Upper field	bbl.	2.70	3.40
Texas, East	bbl.	2.65	—
Gulf coast	bbl.	2.38	2.95
North, North-Central	bbl.	2.23	2.65
Panhandle	bbl.	2.23	2.65
West	bbl.	2.10	2.65
Wyoming	bbl.	1.28	2.875
Ether, laboratory, 30°-60° C, cns., dlvd. E	gal.	1.50	—
dms., c.l., group 3	gal.	.26	—
l.c.l., same basis	gal.	.44	—
35°-60° C, 10-gal. cns., dlvd. E	gal.	1.50	—
dms., c.l., Group 3	gal.	.26	—
l.c.l., same basis	gal.	.44	—
40°-75°C., 10-gal. cns., dlvd. E	gal.	1.50	—
ems., c.l., Group 3	gal.	.26	—
l.c.l., same basis	gal	.44	—
90°-160° C, ret. dms., ex tax, f.o.b. San Francisco	gal.	.87	—
Fuel oil, bunker C, No. 6, California, heavy, tanks, refinery	bbl.	1.25	1.55
light, tanks, refinery	bbl.	1.65	2.10
Eastern, tanks, Albany, N. Y.	bbl.	2.40	—
Baltimore, Md.	bbl.	2.08	—
Boston, Mass.	bbl.	2.13	—
Charleston, S. C.	bbl.	2.03	—
Jacksonville, Fla.	bbl.	2.03	—
New York, N. Y.	bbl.	2.08	2.15
Norfolk, Va.	bbl.	2.08	—
Philadelphia, Pa.	bbl.	2.06	—
Portland, Me.	bbl.	2.13	—
Providence, R. I.	bbl.	2.105	—
Savannah, Ga.	bbl.	2.03	—
Diesel, tanks, refinery, California	gal.	.081	.115
Pennsylvania	gal.	.0875	.09
Furnace, tanks, refinery, Arkansas, No. 2	gal.	.0675	—
No. 3	gal.	.06375	—
Bayonne, N. J., No. 2	gal.	.08	—
Group 3, No. 1	gal.	.075	.08
No. 1, straw	gal.	.075	.08
No. 2, straw	gal.	.075	.08
range	gal.	.07375	.0675
Pennsylvania, No. 1	gal.	.0925	.095
No. 2	gal.	.0875	.095
No. 3	gal.	.0875	.09
Lacquer diluent, California, 170-225 F, b.r., tanks, ex tax, f.o.b. Los Angeles	gal.	.147	—
255 F, b.r., tanks, ex tax, Portland, Ore	gal.	.158	—
San Francisco	gal.	.152	—
Seattle, Wash.	gal.	.158	—
East coast, tanks, N. J. and N. Y. refinery	gal.	.16	—
Group 3, benzol-type, tanks, refinery	gal.	.12125	—
toluol-type, tanks, refinery.	gal.	.11125	.11375
Mineral spirits, California, 170-255 b.r., tanks, ex tax, f.o.b. San Francisco	gal.	.152	—
205-295 b.r., tanks, same basis	gal.	.152	—
245-360 b.r., tanks, same basis	gal.	.152	—
305-365 b.r., tanks, same basis	gal.	.142	—
312-400 b.r., tanks, same basis	gal.	.142	—
360-455 b.r., tanks, same basis	gal.	.152	—
East coast, tanks, N. J., N. Y., refinery	gal.	.14	—
Group 3, tanks	gal.	.09875	.10375
tankwagon, Baltimore	gal.	.175	—
Boston	gal.	.16	—
Buffalo	gal.	.165	—
Camden, N. J.	gal.	.15	—
Chicago	gal.	.197	—
Detroit	gal.	.214	—
Kansas City, Mo.	gal.	.182	—
Newark	gal.	.15	—
New York	gal.	.15	—
Philadelphia	gal.	.14	—
Pittsburgh	gal.	.175	—
Providence	gal.	.165	—
Rochester	gal.	.18	—
St. Louis	gal.	.19	—
Syracuse	gal.	.19	—
Washington, D. C	gal.	.175	—
Naphtha, cleaners, East Coast, tanks, N. J., N. Y., refinery	gal.	.14	—
Group 3, tanks	gal.	.10875	—
tankwagons, St. Louis	gal.	.19	—
Newark	gal.	.15	—
Chicago	gal.	.197	—
Detroit	gal.	.214	—
New York	gal.	.15	—
Philadelphia	gal.	.14	—
high-flash, 140° F, group 3, refinery, tanks	gal.	.13	.145
200-285 b.r., 37-38° C., mixed anilin pt., tanks, refinery or terminal	gal.	.20	.21
25-26° C., m.a.p., tanks, same basis	gal.	.19½	.24
270-370 b.r., 78-81° C., m.a.p., tanks, same basis	gal.	.23½	—
49° C., m.a.p., tanks, same basis	gal.	.26½	—
26-27° C., m.a.p., tanks, same basis	gal.	.19½	.24¼
300-600 b.r., 28-32° C., m.a.p., tanks, same basis	gal.	.19½	.26½
340-410 b.r., 27° C., m.a.p., tanks, same basis	gal.	.30½	—
32° C., m.a.p., tanks, same basis	gal.	.19½	—
36° C, m.a.p., tanks, same basis	gal.	.19½	—
340-440 b.r., 32° C., m.a.p., tanks, same basis	gal.	.25½	.27
360-480 b.r., 25° C., m.a.p., tanks, same basis	gal.	.19½	—
V.M.&P., ref'y, California, 245-360 b.r., tanks, ex tax, f.o.b. Los Angeles	gal.	.147	—
Portland, Ore	gal	.158	—
San Francisco	gal.	.152	—
Seattle, Wash.	gal.	.158	—
East coast, N. J., N. Y., tanks,	gal.	15	—
Group 3, tanks	gal.	.10875	.11375
tankwagon, Boston	gal.	.175	—
Chicago	gal.	.207	—
Detroit	gal.	.224	—
Milwaukee	gal.	.209	—
Minneapolis	gal.	.207	—
Newark	gal.	.165	—
New York	gal.	.165	—
Philadelphia	gal.	.165	—
Pittsburgh	gal.	.185	—
St. Louis	gal.	.20	—
Solvent, rubber, California, tanks, ex tax, San Francisco	gal.	1.52	—
East coast, N. J., N. Y.,	gal.	.15	—
Group 3 tanks	gal.	.10375	.11375
Stoddard, California, tankwagon, ex-tax, Los Angeles	gal.	.157	.195
East coast, N. J., N. Y., tanks	gal.	.14	—

NEW HEYDEN CHEMICAL

BENZILIC ACID

AVAILABILITY
Commercial quantities

CONTAINERS
100 Lb. fiber drums

PROPERTIES
Appearance . . . . . light tan powder
Melting Range . . . . . 146°—149°C.
Assay 99.3%
Solubility . . . . . soluble in hot water, alcohol and ether

Mol. Wt. 228.24

BENZIL

Mol. Wt. 210.22

AVAILABILITY
Pilot plant quantities

CONTAINERS
100 Lb. fiber drums

PROPERTIES
Appearance . . . . . light yellow powder
Congealing Point . . . . . 95°C.
Boiling Point . . . . . 346°—8°C. (d.)
Solubility . . . . insoluble in water; soluble in alcohol and ether

BENZOIN

AVAILABILITY
Pilot plant quantities

CONTAINERS
100 Lb. fiber drums

PROPERTIES
Appearance . . . . . light yellow crystals
Melting Range . . . . . 131°—134°C.
Boiling Point . . . . 343°—4°C. (768 mm.)
Solubility . insol. in water; soluble in alcohol and acetone; slightly soluble in ether

Mol. Wt. 212.24

PARA-BENZYL PHENOL

AVAILABILITY
Pilot plant quantities

CONTAINERS
100 Lb. fiber drums

PROPERTIES
Appearance . . . . . very light tan crystals
Melting Range . . . . . 81°—83°C.
Boiling Point . . . . . 320°—2°C.
Solubility . soluble in hot water, alcohol, ether; and aromatic hydrocarbons

Mol. Wt. 184.22

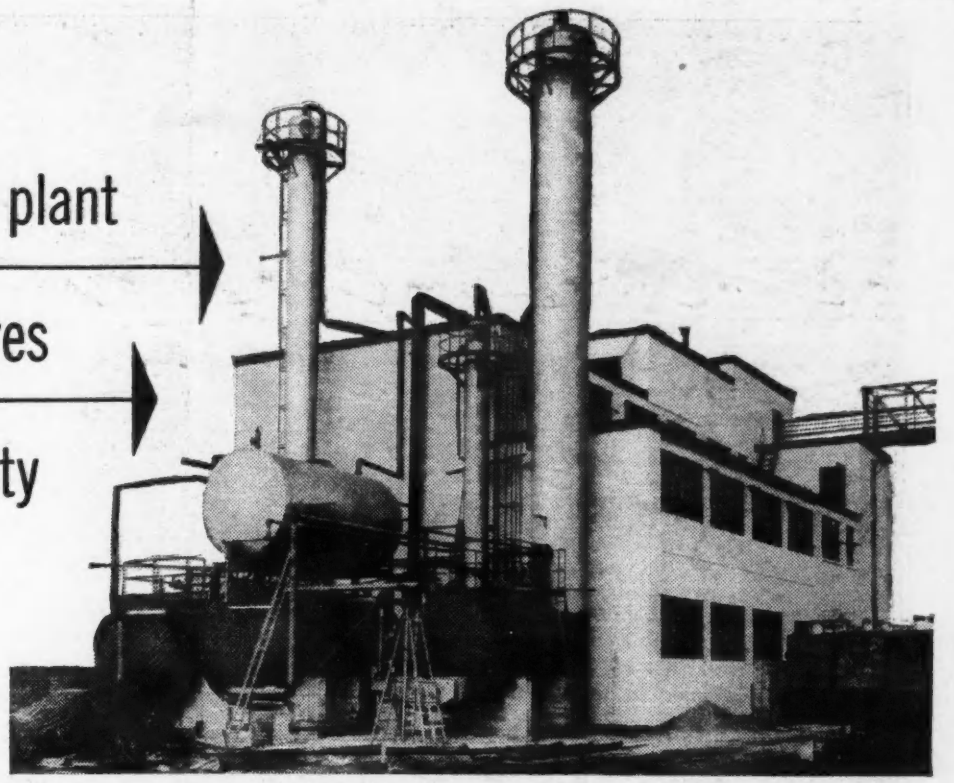
Technical literature and samples sent promptly upon request on company letterhead

HEYDEN CHEMICAL CORPORATION
393 SEVENTH AVENUE, NEW YORK 1, N.Y.
CHICAGO 6 • PHILADELPHIA 3
SAN FRANCISCO 11 • RUMFORD 16, R. I.

FINE HEYDEN CHEMICALS

Benzaldehyde • Benzoates • Benzyl Chloride • Bromides
Chlorinated Aromatics • Chlorobenzenes • Cresylates • 2,4-D
Formaldehyde • Formic Acid • Glycerophosphates • Guaiacols
Hexamethylenetetramine • Medicinal Colloids • Methylene
Disalicylic Acid • Paraformaldehyde • Parahydroxybenzoates
Penicillin • Pentaerythritols • Propyl Gallate
Quadrafos • Salicylates • Salicylic Acid • Streptomycin

Petroleum solvent, Stoddard, Group 3, tanks gal. .10375- .10875
Pennsylvania, western, tanks, gal. .10 - —
tankwagon, Boston gal. .16 - —
Chicago gal. .197 - —
Detroit gal. .214 - —
Milwaukee gal. .199 - —
Minneapolis gal. .197 - —
Newark gal. .15 - —
New York gal. .15 - —
Philadelphia gal. .14 - —
Pittsburgh gal. .175 - —
St. Louis gal. .19 - —
Syracuse gal. .19 - —
Sulphonate, 70% sulphonic content,, ret. dms., c.l., works lb. .1715- —
l.c.l., works lb. .1750- —
tanks, works lb. .1525- —
50% sulphonic content, ret. dms., c.l., works lb. .1365- —
l.c.l., works lb. .1400- —
tanks, works lb. .1175- —
Phenobarbital, USP, dms., 100 lbs. lb. 4.00 4.35
Phenobarbital-sodium, USP, dms lb. 4.00 4.10
Phenol 90-92% (cresol, 8-10%), dms., c.l., frt. alld. and frt. equald. E. of Rockies. lb. .1275- —
l.c.l., same basis lb. .1350- —
tanks, same basis lb. .1100- —
82-84% (cresol, 16-18%), dms., c.l., same basis lb. .1275- —
l.c.l., same basis lb. .1350- —
tanks, same basis lb. .1100- —
USP, dms., c.l., same basis lb. .11½- .14¼
l.c.l., same basis lb. .1425- .1500
tanks, same basis lb. .1250- —
Phenolphthalein, USP yellow, bbls., dms., 2,000 lbs. lb. 1.00 - —
smaller lots lb. 1.02 - 1.07
Phenothiazin, NF, fib, dms., 18,000 lbs., works lb. .44 - —
smaller lots, works lb. .46 - —
Phenylacetaldehyde solution, 50%, bots lb. 2.35 - 2.63
100%, bots lb. 4.00 - 4.75
Phenylacetamide, dms., works, lb. lots lb. 1.25 - —
smaller lots lb. 1.30 - 1.60
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Salicylate (see Salol).
Phenylalanine dextro laevo, dms., works lb. 30.00 -37.50
Phenyldiethanoamine, dms., cl., works lb. .35½- —
l.c.l., works lb. .36½- —
Phenylethanolamine, dms., c.l., works lb. .67½- —
l.c.l., same basis lb. .68½- —
Phenylethyl acetate, dms lb. 1.45 - 2.70
Phenylethylphenyl acetate, bots lb. 3.75 - 6.00
Phenylhydrazin base, CP, bots lb. 3.00 - 3.07
Hydrochloride, CP, bots., works. lb. 5.00 - 5.07
commercial, kgs., works lb. 1.75 - —
Phenylmethylpyrazolone, dms., works lb. 1.58 - 1.60
Phlororglucinol, CP, fib, dms., works lb. 13.75 -15.75
commercial fib, dms., works lb. 4.50 - 7.00
tech., fib., dms., works lb. 10.00 -10.75
Phosgene, 150-lb. cyls., works lb. .20½ - —
10-lb. cyls., works lb. 1.50 - —
Phosphate, defluorinated (see under D)
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 68-66%, b.p.l., bulk, c.l., car at mine long ton. 3.75 3 - —
70%-68%, b.p.l., c.l., same basis long ton. 4.15 5 - —
72%-70%, b.p.l., c.l., same basis long ton. 4.80 5 - —
75%-74%, b.p.l., c.l., same basis long ton. 5.80 5 - —
77%-78%, b.p.l., c.l., same basis long ton. 6.90 3 - —
finely ground, 65% b.p.l., basis 30% P_2O_5 minimum short ton. 4.93 - —
68%, b.p.l., basis 31% P_2O_5 minimum short ton. 5.28 - —
70%, b.p.l., basis 32% P_2O_5 minimum short ton. 5.83 - —
plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble, 50c. per long ton higher than above quotations.
Tennessee, brown, run of mine, unground, 27-28% P_2O_5 long ton. 6.45 - —
30-29% P_2O_5 long ton. 7.21 - —
Phosphorus, red, amorphous, cs lb. .33 - .36
tins, export lb. .34 - .37
Yellow, cns. lb. .30 - .37
dms., c.l. lb. .26 - —
Oxychloride, dms., works lb. .12 - .15
Pentasulphide, dms., c.l., works lb. .11 - —
l.c.l., dms., works lb. .12 - .13
Pentoxide, dms., c.l., works lb. .12 - —
l.c.l., works lb. .13 - .14
Sesquisulphide, tins, cs., works lb. .28 - .29
dms., export lb. .33½- .36
Trichloride, dms., c.l., works lb. .12 - .15
l.c.l., works lb. .13 - .16
Phthalimide, bbls., works lb. 1.10 - 1.37
Phthalic anhydride, bgs., bbls., c.l., works, frt. equald. lb. .21½- —
l.c.l., same basis lb. .22½- —
Pichi leaves, bgs lb. .07 .08
Picoline (see Alphapicoline and Betapicoline).
Picrotoxin, USP, bots oz. 8.00 - —
Pilocarpine hydrochloride, NF, bots., vials oz. 6.50 - 7.50
Nitrate, USP, bots, vials oz. 6.25 - 7.25
Pimento, Jamaica, bgs lb. .22½- .23
Pinetar, retort, dms., incl., c.l., works, South lb. .045 - —
l.c.l., same basis lb. .0473- —
whse., N.Y.C. lb. .0595- —
tanks, works, South lb. .035 - —
Pinkroot, bls lb. 1.60 - 1.70
Piperidine, 95%, dms., frt. equald. lb. 1.65 - —
98%, dms., same basis lb. 1.75 - —
Piperazine hexahydrate, bots lb. 8.50 9.00
Pipsissewa herb (see Princes pine).
Pitch, coaltar, 150°F. m.p., bbls., c.l., works ton. 34.00 —
l.c.l., works ton. 36.00 -37.00
Cottonseed, dms., works lb. .08 - .08½
Hardwood, paper bgs., c.l., works. lb. .02 - —
Linseed, dms. lb. .06 Nom.
Petroleum (see Asphaltum, Mexican, Texas).
Pine, dms., ex whse. East 100 lbs. 6.90 —
Soybean, dms., works lb. .06½ Nom.
Plaster of paris (see Gypsum)
Platinum metal, works oz. 69 00 -72.00
Pokeroot, bls lb. .13 - .14
Pleurisy roots, bls lb. .25 - .26
Podophyllin, NF, dms lb. 12.45 - —
Polystyrene, plain colors, dms., 29,920 lbs., frt. alld lb. .32 - —
20,020 lbs. to 20,920 lbs., same basis lb. .32 - —
smaller lots, same basis lb. .34 - —
special colors, dms., 29,920 lbs., same basis lb. .32 - —
20,020 lbs. to 20,920 lbs., same basis lb. .35 - —
smaller lots, same basis lb. .37 - .50
Polystyrene, water-clear, dms., 29,920 lbs., same basis lb. .26 - —
20,020 lbs. to 20,920 lbs., same basis lb. .27 - —
smaller lots, same basis lb. .28 - —
Polystyrene in bgs. ½c. per lb. lower.
Pomegranate root bark, bgs lb. .68 - .70
Poppy flowers, bls lb. .50 - .55
Seed, Dutch, bls lb. .15 - .15½
Polish, bgs. lb. .13½- .13¾
Turkish, bgs., futures lb. .13¾- .14
Potash, caustic, low-chloride, flake, 85% basis 90% KOH, dms., c.l., works 100 lbs. 9.75 - —
l.c.l., works 100 lbs. 10.50 - —
liquid, dms., c.l., 45%, works, 100 lbs. 4.525 - —
l.c.l., works 100 lbs. 5.025 - —
tanks, works 100 lbs. 4.20 - —
solid, 90%, dms., c.l., works, 100 lbs. 9.15 - —
l.c.l., works 100 lbs. 9.90 - —
regular, flake, 88-92% dms., c.l., works lb. .0615- —
l.c.l., works lb. .069 - —
liquid, 45% basis, dms., c.l., works lb. .03725- —
l.c.l., same basis lb. .0450- —
tanks, same oasis lb. .0340- —
solid, 88-92%, dms., c.l., works, lb. .0755- —
l.c.l. works, lb. .0830- —
Potassium abietate lb. .08 —
Acetate, USP, dms lb. .31 - .36
Bicarbonate, USP, gran., dms lb. .20 - .22
powd., dms lb. .22 - .24
Bichromate, bgs., c.l., works lb. .12¾- —
l.c.l., bgs., works lb. .12½- .13¾
Potassium bichromate in bbls., ¼c. higher.
Bitartrate (see Cream of tartar).
Borate, gran., bbls., c.l., works ton. 192.00 - —
ton lots, works ton. 245.50 - —
less ton lots, works ton. 250.50 - —
Potassium bromate, bbls., 1,000 lbs. or more lb. .48 - —
25-200 lbs lb. .50 - —
Bromide, USP, cryst., gran., bbls., kgs lb. .33 - .34
Carbonate, tech., calcined, bbls., c.l., works lb. .0780- —
l.c.l., same basis lb. .0855- —
hydrated, 83-85%, bbls., c.l., works lb. .06¼ —
dms., l.c.l., works lb. .07 - —
USP, gran., bbls., dms lb. .16½- .18
powd., bbls., dms lb. .21 - .23
Chromate, tech., bgs lb. .25 - .29
Chlorate, cryst., kgs., c.l., works, lb. .08½- —
l.c.l., works lb. .09¾- —
powd., dms., kgs., c.l., works lb. .09 - —
l.c.l., works lb. .09¾- —
export, kgs., 1 to 10 tons, ex whse lb. .12 - —
NF, gran., dms lb. .31 - .33
Chloride, USP, cryst., dms lb. .26 - .27
gran., bbls lb. .20 - .22
powd., bbls lb. .29 - .32
Citrate, USP, gran., dms lb. .37½- .38½
powder, dms. lb. .40½- .41½
Cyanide, dms., works lb. .52½- .55
Fluoride, dms., works lb. .24 - —
Glutonate, dms lb. .75 - .79
Glycerophosphate, 75% solution, cbys lb. 2.03 - 2.20
Guiacol sulphonate, NF, dms lb. 1.80 - 1.85
Hydroxide, tech. (see Potash, caustic).
USP, pellets, jars .53 - —
Hypochlorite, liquid, cbys., dms., works 100 lbs. 3.50 - —
Hypophosphite, NF, 50-lb. lots, fib. dms lb. .90 - .93
Iodide, dms lb. 1.95 - 1.98
Potassium manure salt, 22% K_2O, bulk, mines unit-ton. .20 - —
25% K_2O, bulk, mines unit-ton. .21 - —
Metabisulphite, gran., bbls lb. .21 - —
powd., bbls lb. .25 - —
Muriate, dom., 60% K_2O, bulk, Carlsbad, N. M. unit-ton. .37½- —
Trona, Cal unit-ton. 45½ —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls. lb. .30 - .32
purified, dms. lb. .42 - .44
Perchlorate, kgs., c.l., works lb. .13½- —
dms., l.c.l., works lb. .14 - .15
Permanganate, tech., dms., works, lb. .21¾- .22¾
USP, dms., works lb. .23½- .24
ex whse lb. .29 - —
Persulphate, dms., c.l., works lb. .17 - —
l.c.l., works lb. .21 - —
Phosphate, tetrabasic, bbls., works, lb. .13 - .13¼
Prussiate, red, kgs lb. .60 - .63
yellow, bbls lb. .21 - —
kegs lb. .26 - —
Ricinoleate, tech., bbls lb. .18 - —
Silicate, glass, bgs., c.l., works ton. 200.00 - —
l.c.l. 100 lbs. 15.25 - —
solution, 29° Be, ret. dms., c.l., works 100 lbs. 4.25 - —
l.c.l., 5 or more, works, 100 lbs. 5.00 - —
1-4, works 100 lbs. 5.50 - —
62° Be, net, dms., c.l., works 100 lbs. 4.75 - —
l.c.l., 5 or more, works, 100 lbs. 5.50 - —
1-4, works 100 lbs. 6.00 - —



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Potassium Silicate Solution 40.5°—Red, Rose Lake

Potassium, silicate solution, 40.5° Be, ret. dms., c.l., works, 100 lbs. 3.75 - —
l.c.l., 5 nr mere, works, 100 lbs. 6.50 - —
1-4, works 100 lbs. 7.00 - —
Silicofluoride, bbls., works lb. .07 - .08
Sulphate, agricultural, dom., bulk, basis 90-95% K_2SO_4, min. 90%, works ton.32.50 - —
indust, bulk, works ton.36.00 - —
NF, cryst., bbls. lb. .31 - .33
gran., dms lb. .18½- —
powder, dms lb. .17 - —
Sulphocyanide, cryst., NF (see Potassium thiocyanate).
Thiocyanate, cryst., NF, dms lb. .70 - .78
tech., works lb. .45 - .50
Titanate, ctns., c.l., works lb. .12 - —
5 tons, works lb. .12¼- —
1 ton or less, works lb. .12½- .13
Potassium-magnesium sulphate, bulk, min., 40% K_2SO_4, 18-50% MGO, works ton.14.50 - —
Potassium-sodium ferricyanide, kgs., works lb. .50 - .53
Potassium-sodium tartrate (see Rochelle salt).
Potassium-titanium fluoride, fib. dms., works lb. .45 - .55
Potassium-titanium oxalate, bbls., kgs lb. .65 - .70
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 - —
l.c.l., works lb. .52½- .55
Prickly ash bark, bls lb. .23 - .25
Berries, bgs lb. .55 - .75
Prince's pine herb, bls lb. .50 - .55
Procaine hydrochloride, USP, dms., 1,000-lb. lots lb. 3.75 - 4.50
smaller lots lb. 4.00 - 5.00
Progesterone, USP, 100 gms gm. 1.75 - —
Propane, commercial grade, tanks, group 3 gal. .02½- —
Propionaldehyde, dms., c.l., works lb. .28½- —
l.c.l., works lb. .29½- —
tanks, works lb. .25 - —
Propyl aldehyde (see Propionaldehyde)
Parahydroxybenzoate, USP, dms lb. 2.30 - 2.40
Propylene dichloride, dms., c.l. lb. .08½- —
l.c.l. lb. .09½- —
smaller containers lb. .12½- —
tanks lb. .07 - —
Oxide, dms., c.l., frt. alld. E lb. .18½- —
l.c.l., frt. alld. E lb. .19½- —
tanks, frt. equald. E lb. .16½- —
Propyleneglycol NF, dms., c.l., frt. alld. E lb. .17½- —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .16 - —
Tech., dms., c.l., frt. alld. E lb. .16½- —
l.c.l., same basis lb. .17½- —
tanks, same basis lb. .15 - —
Methylether, dms., c.l., frt. equald. lb. .18 - —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .16½- —
Propylthiouracil, bots., 50 kilos or more, works kilo.55.00 - —
smaller lots, works lb.55.10 -55.30
Psyllium seed, black, bgs lb. .22 - .25
blonde, bgs lb. .19 - .21
husks, bgs lb. .45 - .55
Pulsatilla herb, bls lb. .45 - .50
Pumice, dom., grd., course, 0½, 1, 1½, 2, 3, bgs., ton lots. lb. .03⅝- .04
Chicago, bgs., ton lots lb. .04½- —
smaller lots lb. .03⅞- .04¼
fine, bgs., ton lots lb. .03⅜- —
smaller lots lb. .03⅝- .04
Italian, silk-screen, fine, bgs., ton lots lb. .04 - —
coarse, bgs., ton lb. .05¼- —
sun dried, fine, bgs., ton lots lb. .03 - —
coarse, bgs., ton lots lb. .04¼- —
Pumice in bbls is ½c. per lb. higher.
Pumpkin seed, bgs lb. .18 - .26
Purple lake (see Red).
Pyrethrum concentrate, dewaxed, 20%; for aerosol bombs, dms., works lb.10.75 -11.00
Liquid (20 to 1), basis 2 grams pyrethrins per 100cc., odorless base, dms., works gal. 9.00 - 9.50
regular base, dms. works, gal. 8.90 - 9.40
(30 to 1) base, 3 grams pyrethrins, per 100cc., odorless base, bbls., works gal.13.30 - —
regular base, dms., works, gal.13.20 - —
Flowers, fine-grd., 0.9% pyrethrins, bbls., works lb. .42 - .44
powder, 1.3% pyrethrins, bbls., works lb. .53 - .56
Pyridin, denaturing, dms., works and frt. equald., c.l. gal. 2.00 - 2.69
l.c.l. gal. 2.00 - 2.72
Pyridin, refd., 2° non-ret. dms., c.l., same basis lb. .79 - .79½
l.c.l., same basis lb. .80 - —
ret. dms., c.l., same basis lb. .79 - —
lb. .78 - —
l.c.l., same basis lb. .79½- —
Pyridoxin hydrochloride, 100-gram lots gram. .55 - —
Pyrites, Spanish, c.i.f. Atl ports, long-ton 8.00 - —
Pyrocatechin (see Catechol).
Pyrophyllite, standard, 200 mesh, bulk, c.l., mines ton.11.00 -11.50
230 mesh bulk, c.l., mines ton.12.00 - —
325 mesh, bulk, c.l., mines ton.15.00 - —
No. 3, 200 mesh bulk, c.l., mines, ton. 9.50 - —
insecticide grade, 200 mesh, bgs., c.l., mines ton.12.00 -12.50
rubber grade, 140 mesh, bgs., c.l., mines ton.10.00 -10.50
Pyrophyllite in paper bgs., $3 to $3.50 per ton extra.
Pyroxylin scrap, opaque, amber, cs., works lb. .17 - —
black, cs., works lb. .14 - —
gray, cs., works lb. .14 - —
mixed, mottled, cs., works lb. .12 - —
white, china, ivory, cs., works, lb. .17 - —
dense, cs., works lb. .17 - —
translucent, pastels, cs., works, lb. .17 - —
transparent, colorless, cs., works, lb. .19 - —
colors, cs., works lb. .17 - —
shavings, opaque, amber, cs., works lb. .15 - —
mixed, colors, cs., works lb. .14 - —
white, cs., works lb. .17 - —
USP, bots., divd lb. 9.54 - —

Q

Quassia chips, bls lb. .08 .09
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l., duty extra lb. .16½ Nom.
liq., 35% tannin, bbls., works, lb. .08½ Nom.
tanks, same basis lb. .07¾ Nom.
solid, 64% tannin, bgs., c.l., duty extra lb. .09 - —
powd., 70% tannin, ogs., c.l., same basis lb. .17 Nom.
ordinary, solid, 63% tannin, bgs., c.l., ex dock, same basis lb. .08 5/16
Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.
Queen of the meadow root, bgs. lb. .14 - .15
Quercitron crystals, bbls., l.c.l lb. .33½- —
Extract, liquid, bbls., l.c.l lb. .14½- —
solid, bxs lb. .28 - —
Quicksilver, flasks (76 lbs.) net, 100 flask lots flask.71.00 - —
smaller lots lb.73.00 -75.00
Quince seed, bgs lb. .90 - 1.50
Quinidine, NF V, cryst., cns oz. 1.90 - —
powd., precip., cns oz. 1.85 - —
Sulphate, USP, cns oz. 1.25 - —
Quinine, NF, cns., 100 ozs oz. .70 - —
Bisulphate, USP, cns., 100 ozs oz. .51 - —
Dihydrochloride, USP oz. .70 - —
Ethylcarbonate, NF, cns., 100 ozs. oz. .75 - —
Hydrobromide, NF, cns., 50-oz. cns. oz. .63 - —
Hydrochloride, USP, cns., 100 ozs. lb. .63 - —
Phosphate, NF, cns., 100 ozs oz. .76 - —
Salicylate, NF, ctns., 100 ozs oz. .66 - —
Sulphate, USP, cns., 100 ozs oz. 56½- —
Quinine-urea hydrochloride, NF, cns lb. .68 - —
Quinolin, dms., c.l., works lb. 50¾- .54¼
l.c.l., same basis lb. .51¼- .55
tanks lb. .50 .51

R

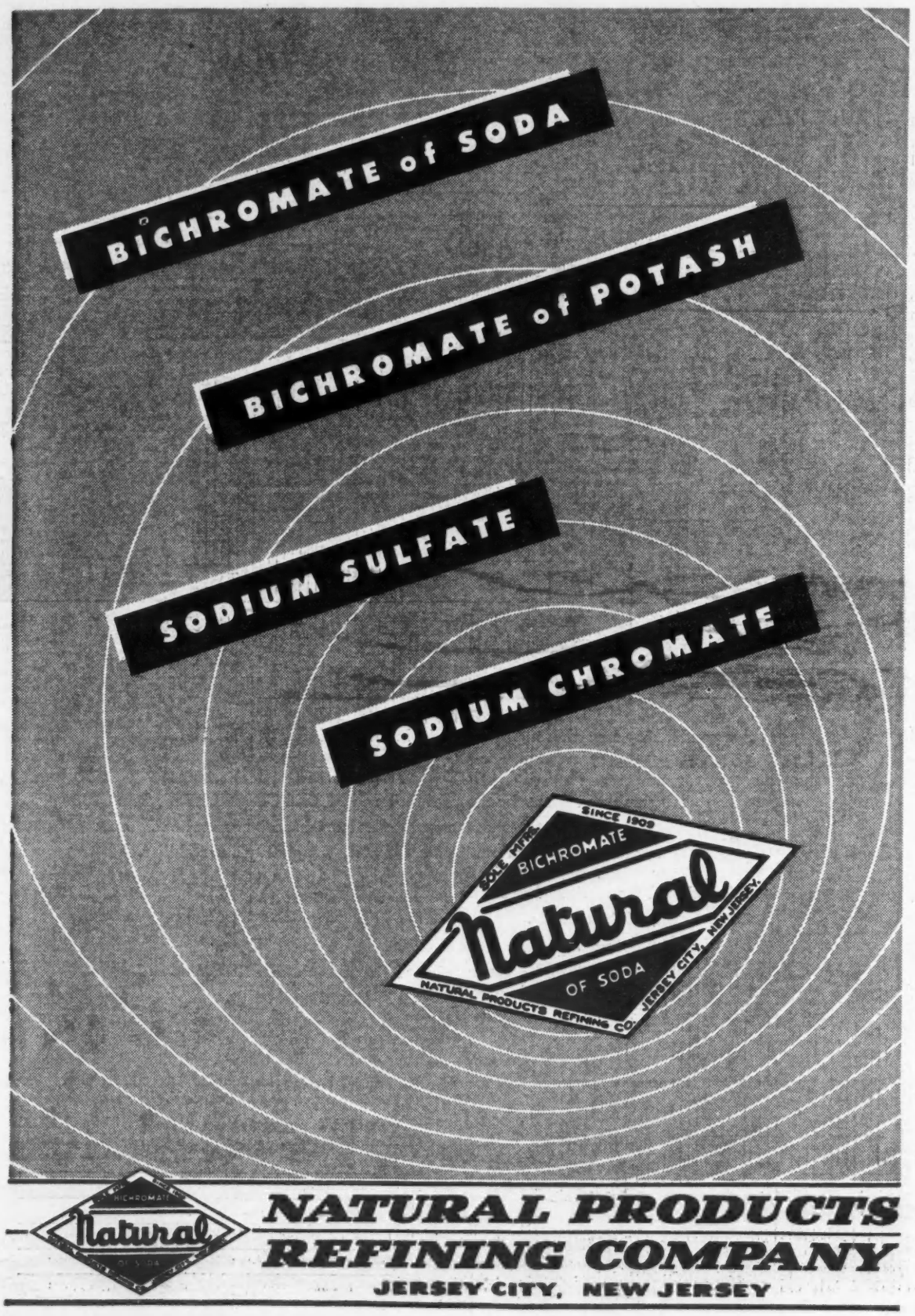
fl salt, paste, dry basis, dms. lb .70 .75
Raspberries, dried, bbls. lb. 1.90 - 2.00
Red, alizarin lake, bbls., divd. N. of Tenn. and N. C., E. of Miss. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 1.45 - 2.25

Prices ½c. per lb. higher divd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher, divd. Pacific coast prices equaled with Chicago, divd. Denver, Pueblo, Salt Lake City, Wichita.

Cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies lb. 1.35 - —
light shade, bbls., same basis, lb. 1.20 - —
maroon, bbls., same basis lb. 1.45 - 1.55
medium shade, bbls., same basis lb. 1.30 - —
medium-light shade, bbls., same basis lb. 1.25 - —
orange red, bbls., same basis lb. 1.15 - —

Red cadmium lithopone, all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c. per lb. higher ex whse. Los Angeles and San Francisco.

Carmine, No. 40 (see Carmine).
Crocus martis (see Red, maroon iron oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works lb. 1.40 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y. lb. .11½- 11¾
Iron oxide, synth., bgs lb. .11½- .11¾
75%-85% copperas oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O.; Easton, Pa.; E. St. Louis lb. .05¼- 09¼
special, high color, all shades lb. 1.00 - —
Lake C toner alizarin, bbls., works, lb. 1.05 - —
Lithol toner, bbls., works lb. .80 - —
Lithol-rubin toner, alizarin, lake, bbls., works lb. 1.40 —
Maroon, alizarin lake, 25%, kgs., works lb. .41 .43
toner, bbls., works lb. 1.35 1.50
Cadmium, deep, bbls., works lb. 1.20 —
regular, bbls., works lb. 1.10 —
Iron oxide, bgs., l.c.l., works lb. .04 - —
MNPT toner, kgs., works lb 3.25 —
Maroons in smaller pkgs., 5c. per lb higher
Mercury oxide, tech., bbls., 10,000 lbs., works lb. 2.00 —
smaller lots, works lb 2.02 - —
Metallic, bbls., works lb. .02½- .02¾
Oxide (see Red, iron oxide).
Persian gulf, bgs., works lb. .06¾ .07
Para toner, bbls lb. .85 .88
chlorinated, kgs lb. .95 1.05
concentrated alizarin lake, kgs., works lb. .80 —
Phloxin toner (see eosin toner)
Phosphotungstic, rhodamine Y, kgs., works lb. 4.45 —
Pink lake, alizarin, bbls., works lb. .20 .25
Purple lake, kgs lb. 1.35 —
Rose lake, alizarin, bbls., works lb. .25 .28



Red, Spanish oxide, grade 1, bbls., c.l., ex dock	lb.	.05½-	.05¾
l.c.l., ex dock	lb	.05¾-	.06
ex whse., New York	lb.	.06½-	—
grade 2, bbls., c.l., ex dock	lb.	.05¼-	.05½
l.c.l., ex dock	lb.	.05½-	.05¾
ex whse., New York	lb.	.06¼-	—
Toluidin toner (MNPT), kgs., works	lb.	1.35 -	—
Turkey, bbls., works	lb.	.14½-	—
Tuscan, bbls., frt. equald	lb.	.24½-	.25
Venetian, bags, bgs., works	lb.	.0350-	—
20%, bgs., works	lb.	.0360-	—
25%, bgs., works	lb.	.0410-	—
30%, bgs., works	lb.	.0440-	—
35%, bgs., works	lb.	.0465-	—
40%, bgs., works	lb.	.0490-	—
Vermilion, Amer., bbls	lb.	.32 -	—
Quicksilver, ctns	lb.	2.27 -	—
Red Precipitate, NF, powd., fib. dms	lb.	2.17	2.19
Red saunders wood, powd., bbls	lb.	.50 -	—
Rennin, NF	lb.	6.50 -	—
Resorcinol, industrial, dms., c.l., works	lb.	.62 -	—
l.c.l., works	lb.	.63 -	—
tech., dms., c.l., works	lb.	.74 -	—
l.c.l., works	lb.	.75 -	—
USP, cryst., dms., works	lb.	2.50 -	—
powd., dms., works	lb.	2.70 -	—
Monoacetate, NF, dms	lb.	3.25	3.45
Rhatany root, bgs	lb.	.12 -	.14
Rhubarb root, whole, cs	lb.	.90 -	1.05
powd., bbls	lb.	1.00 -	1.20
Riboflavin, USP, bots	kilo.	125 00	—
Readily soluble, bots	kilo.	125.00 -	—
Rice bran concentrate, dms., Cedartown, Ga	lb.	79 -	—
Rochelle salt, USP, gran., powd., bbls., 5,000 lbs	lb.	.28½-	—
smaller lots	lb.	.29 -	.30
Rose flowers, pale, bls	lb.	.20 -	.24
Rosemary flowers, bls	lb.	1.55	1.65
Leaves, French, bls	lb.	.12 -	.17
Portuguese, bls.	lb.	.07 -	.07½
Spanish, bls.	lb.	.07½-	.08
Rosin, gum (see Naval Stores, Protective Coatings market).			
Wood, B, dms., c.l., works	100 lbs.	4.25 -	—
FF, dms., c.l., works	100 lbs.	5.50 -	—
G, H, I, dms., c.l., works	100 lbs.	6.61 -	—
K, dms., c.l., works	100 lbs.	6.61 -	—
M, dms., c.l., works	100 lbs.	6.61 -	—
N, dms., c.l., works	100 lbs.	6.61 -	—
WG, dms., c.l., works	100 lbs.	6.61 -	—
WW, dms., c.l., works	100 lbs.	6.73 -	—
X, dms., c.l., works	100 lbs.	6.83 -	—
Rotenone, CP, bbls., works	lb.	20.00 -	—
tech., works	lb.	16.50 -	—
Rottenstone, bgs., c.l., mines	ton.	36.00 -	—
l.c.l., mines	ton.	43 00 -	—
Rue herb, bls	lb.	.35 -	.40
Rutin, 10 kilos, fib. dms	gram.	.06 -	.07½
5 kilos, fib. dms	gram.	.06 -	.07¼
smaller lots, fib. dms	gram.	.06½-	.08

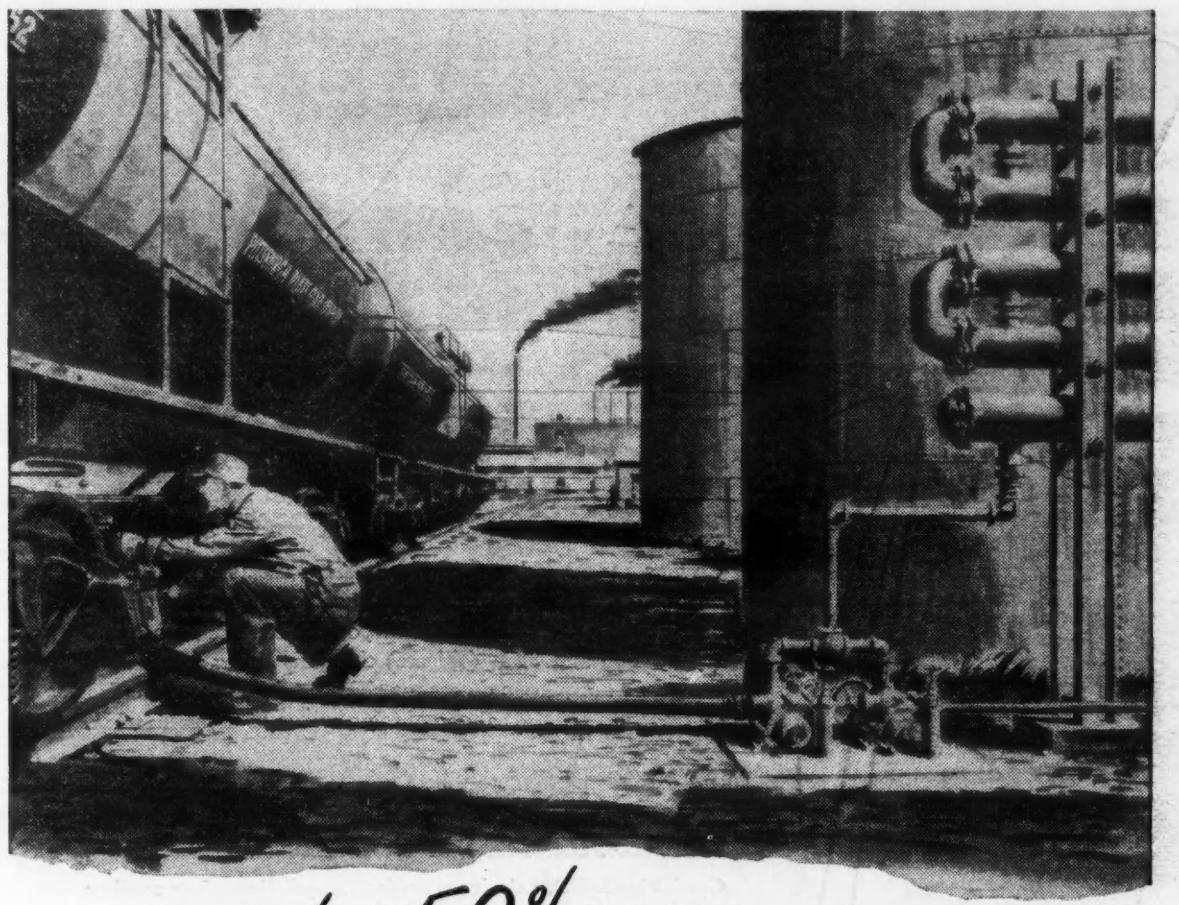
S

Sabadilla seed, powd., bbls	lb.	.45	.50
activated ground with lime, bbls	lb.	.26	.27
Saccharin, USP, gran., soluble, 1,000 lbs	lb.	1.50 -	—
smaller lots	lb.	1.60	1.70
powd., soluble, insoluble, dms., 1,000-lb. lots	lb.	1.55 -	—
smaller lots	lb.	1 65	1.85
Safflower, Egyptian, bls	lb.	.80 -	85
Saffron, Mexican, bls	lb.	.95 -	1.00
Spanish, USP, tins	lb.	17.00 -	18.00
Safrol, dms	lb.	68	75
Sage, Cyprus, bales	lb.	.08 -	.09
Dalmatian, bls.	lb.	.56	Nom.
Greek, fancy, bls	lb.	.08 -	.09
Spanish, bls	lb.	.08 -	.09
Syrian, bgs	lb.	.21	Nom.
Sago flour, bgs	lb.	.05½-	—
Saligenin, ctns., works	lb.	14.00 -	25.00
Salol, NF, gran., bbls., kgs	lb.	1.00 -	—
fib. dms	lb.	1.02	1.03
powdered salol 10c. higher			
Salt, rock, burlap bgs., c.l.	100 lbs.	.98 -	—
l.c.l.	100 lbs.	1.19 -	1.22
paper bgs., c.l.	100 lbs.	.88 -	—
l.c.l.	100 lbs.	1.09 -	1.12
Table, vacuum, common, fine, bgs., works, c.l.	100 lbs.	.98 -	1.08
t.c.l., bgs. dlvd.	100 lbs.	1.20	1.32
USP, dms	lb.	.21	—
Saltcake, dom., bulk, dlvd, 100% Na_2SO_4 basis	ton.	22.00	-24.00
Saltpeter, cryst., bbls., 10 tons.	100 lbs.	13.90	—
smaller lots	100 lbs.	14.15	-14.40
gran., bbls., 20 tons	100 lbs.	9.25 -	—
smaller lots	100 lbs.	10.50	-11.00
powd., bbls., 20 tons	100 lbs.	10.25 -	—
smaller lots	100 lbs.	11.50	-12.00
NF, gran., dms	lb.	15¾-	.17¾
Saltpeter in bags, 25c. per 100 lbs. less than in barrels; in kegs, $1 more.			
Sandalwood chips, East Indies, bgs.,	lb.	.65 -	.66
powd., dms.	lb.	.75 -	.76
Sanguinarine nitrate, bots	oz.	4.75	5.50
Santonin, NF, cryst., powd., cns.	kilo.	No stocks.	
Saponin No. 1, cns	lb.	2.45 -	—
Sarsaparilla root, dom., bls	lb.	.30 -	.40
Honduras, bls.	lb.	.40 -	.45
Mexican, bls	lb.	.24 -	.30
Sassafras bark, ord., bls	lb.	.35 -	.40
select, bls	lb.	.50 -	.55
Savory, French, bls	lb.	.14 -	.15
Spanish, bls	lb.	14 -	.14½
Saw palmetto berries, bgs.	lb.	.23 -	.24
Scammony resin, lump, cns	lb.	2.10	2.25
powd., cns	lb.	2.20	2.30
Root, bgs	lb.	.11 -	.14
Schaeffer's salt, bgs.	lb	60 -	.67
Scopolamine hydrobromide, bots	oz.	20.50 -	24.50
Hydrochloride, bots	oz	84.00 -	—
Seidlitz mixture, bbls., 5,000 lbs	lb.	.25¾-	—
smaller lots	lb.	.26¼-	—
dms., 100 lbs. or less	lb.	.27¼-	.31¼
Selenium, powd., cns., 10-lb. lots	lb.	2.10 -	—
cs., 1,000-lb lots	lb.	2.00 -	—
Senega root, bls.	lb.	1.60 -	1.65
Senna leaf, Alex., half-leaf, bls	lb.	.22 -	.24
sifting, bgs.	lb.	.19 -	.21
Tinnevelly, No. 1, bls	lb.	.17 -	.24
No. 2, bls	lb.	.14 -	.19
No. 3, bls	lb.	.10 -	.11
Pods, bls	lb.	.12 -	.15
powdered, bls., bxs.	lb.	16 -	.22
Serpentaria root, bls	lb.	2.20	2.30
Sesame seed, Brazil, bgs., afloat	lb.	.16½-	.17
Chinese, white, nat., bgs	lb.	.11½-	.12
hulled, bgs.	lb.	.19 -	.20
Nicaragua, hulled	lb.	.22 -	.25
Salvadorean	lb.	.13 -	.13½
Turkish, yellow	lb.	14½-	.15
Shellac, bleached, bonedry, bgs., 1,500-lb. lots	lb.	.61½-	—
bbls., 1,500-lb. lots	lb.	.62 -	—
kgs., 1,500-lb. lots	lb.	.64 -	—
refined, bgs., 1,500-lb. lots	lb.	.71½-	—
bbls., 1,500-lb. lots	lb.	.72 -	—
kgs., 1,500-lb. lots	lb.	.74 -	—
bonedry shellac prices for less than 1,500 lbs., 1c. per lb. higher for all packages.			
Lemon, No. 1, bgs	lb.	.58 -	.59
No. 2, bgs	lb.	.56 -	.57
Superfine, bgs., 10 bgs	lb.	.53 -	.54
TN, bgs., 10 bgs	lb.	.50 -	.51
Shellac in 1 to 9 bgs., 1c. more.			

Silica amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works	ton.	20.00	-30.00
l.c.l., works	ton.	25.00	-40.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works	ton.	20.00 -	—
l.c.l., works	ton.	25.00 -	—
99½%, 140 mesh, bgs., c.l., works	ton.	12.00 -	—
l.c.l., works	ton.	17.00 -	—
Tetrachloride, tech., dms., c.l., works	lb.	.14½-	—
l.c.l., works	lb	.18½-	.20½
Silver bullion, ingots, cs	oz.	.73¾-	—
Cyanide, fib. dms., 2,250-oz. lots.	oz.	.66¾-	—
1,000-oz. lots	oz.	.67 -	—
500-oz. lots	oz.	.67¼-	—
100-oz. lots	oz.	.67½-	—
Nitrate, CP, cryst., bots., 2,300-oz. lots	oz.	.46¾-	—
1,000-oz. lots	oz.	.48 -	—
500-oz. lots	oz.	.48¾-	—
250-oz. lots	oz.	.49 -	—
USP granular silver nitrate, 2c. per oz. higher.			
Proteinate, mild, USP, bots., dms., 1,000-oz. lots	oz.	.95 -	—
strong, NF, bots., dms., 1,000-oz. lots	oz.	.90 -	—
Simaruba bark, bls.	lb	85	Nom.
Skullcap herb, Eastern, bls	lb.	60 -	.65
Western, bls	lb.	.30 -	.35
Skunk cabbage root, bls	lb.	.30 -	.35
Slate flour, bgs., c.l., works	ton.	11.00	-12.00
l.c.l., ex whse	ton.	20.00	-60.00
Sloe berries, bgs	lb.	.33 -	.35
Smalt, black, ctns	lb.	.11	—
Blue, ctns	lb	18	—
Snakeroot, Canada, bls	lb.	.40 -	.45
Soapbark, bls.	lb.	.20 -	.23
crushed, bls., bbls	lb.	.22 -	.26
cut, foreign, bbls	lb.	.23 -	.26
powd., bbls.	lb.	.27 -	.29

Soda ash, dense, 58%, paper bgs., c.l., works	100 lbs.	1.35 -	—
l.c.l., stock points	100 lbs.	2.75 -	4.52
bbls., c.l., works	100 lbs.	2.00 -	—
l.c.l., stock points	100 lbs.	3.25 -	5.02
bulk, c.l., works	100 lbs.	1.10 -	—
light, 58%, paper bgs., c.l., works	100 lbs.	1.25 -	—
l.c.l., stock points	100 lbs.	2.65 -	4.42
bbls., c.l., works	100 lbs.	1.90 -	—
l.c.l., stock points	100 lbs.	3.15 -	4.92
bulk, c.l., works	100 lbs.	1.00 -	—
Caustic, flake, powd., 76% dms., c.l., works	100 lbs.	3.45 -	—
l.c.l., stock points	100 lbs.	4.80	6.67
liquid, 50%, sellers' tanks, works, dry basis	100 lbs.	2.40	—
rayon-type, tanks, works, dry basis	100 lbs.	2.40	2.50
70%, sellers' tanks, works, dry basis	100 lbs.	2.50 -	—
rayon-type, tanks, works, dry basis	100 lbs.	2.60 -	—
solid, 76%, dms., c.l., works	100 lbs.	3.05 -	—
l.c.l., stock points	100 lbs.	4.40 -	6.27
Sal, bgs., c.l., ex car	100 lbs.	1.55 -	—
l.c.l., bgs., ex whse	100 lbs.	1.75 -	—
Soda-lime, USP, dms	lb.	.23	.25
Sodium acetate, anhyd., dms., works	lb.	.10	.11½
NF, cryst., bbls., works	lb.	.16 -	—
Alginate, refined, water soluble, bbls., works	lb.	.79 -	—
semi-refined, bbls., works	lb.	.46 -	—
NF, white, powd., dms., works, ton lots	lb.	1.25 -	—
smaller lots	lb.	1 30	1.65
Aluminate, 20,000 lbs., or more, bgs	100 lbs.	8.50 -	—
under 20,000 lbs., works	100 lbs.	9.50 -	—

Sodium, antimoniate, bbls., c.l., dlvd, E.	lb.	.31 -	—
t.c.l., dlvd	lb	32	—
Arsenate, dealers, dms., c.l., works.	lb.	.12	—
Arsenite, dealers, dms., works	lb.	.13¼-	.14¼
solution, dms., works	gal.	70 -	1.00
t.c.l., works	lb.	.11¾-	.11⅞
Benzoate, tech., bbls., dms., 100 lbs. or more	lb.	.39 -	—
USP, bbls., dms., 100 lbs. or more	lb.	46 -	—
Bicarbonate, USP, gran., bgs., c.l., works	100 lbs.	2.35 -	—
t.c.l., works	100 lbs	3 00	—
powd., bgs., c.l., works	100 lbs.	1.95 -	—
t.c.l. works	100 lbs.	2.60 -	—
Bichromate, bgs., c.l., works	lb.	.10 -	—
l.c.l., works	lb.	.10½-	10½
Sodium bichromate in bbls., ¼c higher			
Bifluoride, bbls., c.l., works, frt. equald	lb.	.13¼-	—
l.c.l., same basis	lb.	.13½-	—
Bisulphate, bulk, c.l., works	100 lbs.	1.75 -	—
dms., c.l., works	100 lbs.	2.40 -	—
t.c.l., works	100 lbs	2 90 -	—
Bisulphite, powd., bags, c.l., works	100 lbs.	3.75 -	—
t.c.l., works	100 lbs.	4.00 -	—
solut. 35° bbls., c.l., works	100 lbs.	1.10 -	—
t.c.l works	100 lbs	1.50 -	—
Borate (see Borax).			
Bromide, USP, bbls., kgs., works	lb.	.33	.34
Cacodylate, NF, bots., dms	lb.	7.00	- 8.00
Carbonate (see Soda ash, Soda sal, Sodium monohydrate).			
USP monohydrate, gran., dms	lb.	.05¾-	.06¼



73% vs. 50%

LIQUID CAUSTIC SODA

increased freight rates require an up-to-date analysis of your delivered costs—basis NaOH

Many volume users of Caustic Soda are finding it advantageous to purchase 73% rather than 50% liquor. Substantial savings are thus realized through the greater Caustic content per car.

A patented Columbia process incorporates unloading and diluting in a single operation, in many cases permits present storage facilities to be used without alteration. You may find it profitable to use 73% Caustic. It's worth checking into. Write Pittsburgh Plate Glass Company, Columbia Chemical Division, Dept. CS-1, Fifth at Bellefield, Pittsburgh 13, Pennsylvania.

ARE YOU INTERESTED IN MORE FACTS? Your copy of the Columbia Caustic Soda Manual contains more detailed information on the use of 73% vs. 50% liquor. Additional data and recommendations are available from Columbia's Technical Service Department. Your inquiries are invited. Write to Dept. CS-1.

COLUMBIA CHEMICALS

CHICAGO • MINNEAPOLIS • BOSTON
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PAINT • GLASS • CHEMICALS • BRUSHES • PLASTICS

PITTSBURGH PLATE GLASS COMPANY

Sodium Chlorate—Soybean Meal

Sodium chlorate, cryst., dms., c.l., works lb. .07½- —
i.c.l., works lb .07¾- .08¼
powd., kgs., works lb .09 - —
Chlorite, tech., dms., works lb .75 - —
Chloroacetate, tech., dms., c.l., works lb. .20 - —
i.c.l., dms., works lb. .21 - .22
Chloride (see Salt).
Chromate, bbls., dms., c.l., works. lb. .11¾- —
Citrate, USP VIII, bbls lb. .21½- —
dms. lb. .22½- .26¼
USP XIII, gran., bbls lb. .28 - —
dms. lb. .29 - .33
Sodium citrate, USP XIII, powd., prices ½c. higher.
Cyanate, dms., ton lots, works lb. .75 - —
smaller lots, works lb. .85 - —
Cyanide, 96-98%, dms. lb. .16 - .18
Diacetate, 33-35% acidity, bbls., works lb. .11½- .12¼
anhydrous, dms., works lb. .14 - .15½
Fluoride, white, 90%, bbls., c.l., works lb. .10½- —
i.c.l., works lb. .10¾- —
95%, bbls., c.l., works lb. .10¾- —
i.c.l., works lb. .11 - —
Fluoroacetate, monobasic, 8-oz. tins, 50 to a case, works. lb.12.00 - —
2 to 25 tins to case, works lb.12.00 -16.50
1 oz. tins, 16 to 64 to case, works lb.16.50 -21.00
tribasic, tons lb.11.00 - —
Formate, bgs., c.l., dlvd. 100 lbs. 7.10 - —
i.c.l. 100 lbs. 8.15 - —
Gluconate, dms. lb. .83 - .85
Sodium glutamate, monobasic, kgs. lb. 1.35 - 1.56
Glycerophosphate, NF, flake, bbls. lb. 1.65 - 1.80
powder, bbls. lb. 1.70 - 1.85
solution, 75%, cbys. lb. .96 - 1.06
Hydrosulphide (see Sodium, sulphydrate).
Hydrosulphite, dms., c.l., frt. alld. lb. .21 - —
i.c.l., frt. alld lb. .21½- .22
Hydroxide, tech. (see Soda, caustic).
USP, pellets, dms lb. .23 - —
Hypophosphite, NF, 50-lb. lots, dms lb. .85 - .88
Hyposulphite, tech., cryst., bgs., c.l., works, frt. equald 100 lbs. 3.50 - —
i.c.l., same basis 100 lbs. 3.90 - —
pea cryst., bgs., metro area 100 lbs. 3.75 - —
Soda, hyposulphite, crystals in bbls., 40c higher; pea crystals, dms., 50c. higher.
USP (see Sodium thiosulphate).
Iodide, USP, dms., jars lb. 2.47 - 2.66
Lactate, edible, 50%, dms., c.l., works lb. .18 - —
i.c.l., dms., works lb. .18¾- —
tech., 50%, dms., c.l., works lb. .12½- .15
l.c.l., dms., works lb .13 - .15¼
Metaborate, octa-hydrate, gran., bgs., c.l., works ton.73.00 - —
i.c.l., works ton.118.00 -123.00
tetrahydrate, c.l., bbls., works. ton.184.50 - —
Sodium metaborate in bbls., $20 per ton higher.
Metal, dms., works lb. .18½- —
Metanilate, bgs. lb. .57 - —
Sodium metasilicate, anhyd., bbls., c.l., works 100 lbs. 4.25 - —
gran., bgs., c.l., works 100 lbs. 3.25 - —
i.c.l. 100 lbs. 4.35 - 4.60
bbls., c.l., works 100 lbs. 3.65 - —
i.c.l. 100 lbs. 4.75 - 5.00
Molybdate, anhyd., works lb. .51½- .53
Monohydrate, bgs., c.l., works. 100 lbs. 2.00 - —
i.c.l., works 100 lbs. 2.45 - —
Naphthionate, bbls lb. .60 - .65
Nitrate, crude, dom., bgs., c.l., works ton.48.50 - —
bulk, c.l., works lb.45.00 - —
imp., 100-lb. bgs., c.l., Atl Gulf, Pac. whse. ton.51.50 - —
bulk, c.l., same basis ton.48.00 - —
USP, dms. lb. .21 - —
Nitrite, 90%, bbls., c.l., works, frt. equald lb. .06¾- —
West coast ports 100 lbs. 8.00 - 8.05
l.c.l., dlvd 100 lbs. 8.90 -11.00
Orthosilicate, anhyd., dms., c.l., works 100 lbs. 5.25 - —
i.c.l., same basis 100 lbs. 5.55 - 7.10
hydrated, flake, bbls., c.l., works. 100 lbs. 4.25 - —
i.c.l., works 100 lbs. 5.50 - 5.75
Oxalate, neut., bgs., works lb. .09½- —
Para-aminosalicylate, dms., 1,000 lbs. or more, works lb. 8.00 - —
smaller lots, works lb. 8.05 - 9.00
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald. lb. .21½- —
i.c.l., same basis lb. .22½- .24¼
pellets, bgs., c.l., same basis, lb. .21 - —
i.c.l., same basis lb. .22 - .26
powd., bgs., c.l., same basis lb. .20 - —
i.c.l., same basis lb. .21 - .24
Sodium perborate, USP, tech., bbls., c.l., works lb. .18¾- —
i.c.l., works lb. .19¼- —
Peroxide, dms., c.l., dlvd. E. of Miss. lb. .18 - —
i.c.l., same basis lb. .18½- .19
Phenolsulphonate, USP IX, gran., dms. lb. .38 - .39
powd., dms. lb. .41 - .42
Phosphate, dibasic, anhydr, bgs., c.l., works 100 lbs. 6.75 - 7.00
i.c.l., works 100 lbs. 7.25 - 7.50
cryst., bgs., c.l., works. 100 lbs. 3.35 - 3.60
i.c.l., works 100 lbs. 3.75 - 4.00
USP, dried, powd., dms., works lb. .20 - .20¼
monobasic, anhyd., bgs., c.l., works 100 lbs.10.00 - —
i.c.l., works 100 lbs.12.85 - —
tribasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. No stocks
i.c.l., same basis 100 lbs. No stocks.
cryst., bgs., c.l., works, frt. equald 100 lbs. 3.75 - —
i.c.l., same basis 100 lbs. 4.25 - —
Sodium phosphates in bbls., 40c. higher than bgs.
USP (see Sodium phosphate dibasic).
Prussiate, yellow, bgs. lb. .12½- —
Pyrophosphate, acid, bgs., c.l., works, frt. equald 100 lbs.10.00 - —
ferric, dms., 1,500 lbs., works. lb. .30 - —
smaller lots, works lb. .31 - —
tetrabasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. 6.90 - —
i.c.l., frt. equald 100 lbs. 7.40 - —
Ricinoleate, tech., bbls. lb. No stocks.
Salicylate, USP, dms. lb. .57 - .60
Sesquicarbonate, bgs., c.l., works. 100 lbs. 1.95 - —
bbls., c.l., works 100 lbs. 2.45 - —
l.c.l., bgs., dlvd. zone 1 100 lbs. 3.70 - 4.10
zone 2 100 lbs. 3.96 - 4.36
zone 3 100 lbs. 4.25 - 4.65
zone 4 100 lbs. 4.96 - 5.35
Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex., E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb., W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.
Sesquisilicate, bbls., c.l., works 100 lbs. 4.15 - —
i.c.l. dlvd 100 lbs. 5.40 - 5.65
Silicate, 40°, trub'd., dms., c.l., works 100 lbs. 1.00 - —
i.c.l., works 100 lbs. 1.25 - 1.35
tanks works ton.16.00 -17.00
52°, turbid, dms., c.l., works 100 lbs. 1.80 - —
i.c.l., works 100 lbs. 2.05 - 2.15
tanks works ton.32.00 - —
Silicofluoride, bbls., c.l., works lb. .04 - —
i.c.l., works lb. .04½- —
Stannate, dms., works, frt. alld. E. lb. .532 - .597
Stearate, tech., bbls., works lb. .40 - —
USP, anhyd., bbls., works lb. .51 - .56
Sulphanilate, bbls., works lb. .22 - —
Sulphate, NF VII, dried, gran., dms. lb. .20 - .23
tech. anhyd., bgs., c.l., works. 100 lbs. 2.10 - —
i.c.l., works 100 lbs. 2.35 - 2.60
cryst. (see Glauber's salt).
USP, cryst., bbls lb. .17 - .19
gran., bbls. lb. .15½- .17½
Sulphide, flake, bbls., c.l., works, frt. equald 100 lbs. 4.50 - —
i.c.l., same basis 100 lbs. 5.00 - 5.25
fused, bbls., c.l., works, frt. equald 100 lbs. 4.00 - —
i.c.l., same basis 100 lbs. 4.50 - 4.75
Sulphite, anhyd., tech., powd., bbls., c.l., frt. equald 100 lbs. 2.50 - 2.75
i.c.l., same basis 100 lbs. 3.25 - 3.75
crystals, bgs., c.l., works 100 lbs. 3.60 - —
i.c.l., works 100 lbs. 4.00 - —
bbls., c.l., works 100 lbs. 4.00 - —
i.c.l., works 100 lbs. 4.40 - —
powd., bbls., c.l., works 100 lbs. 6.50 - —
i.c.l., works 100 lbs 7.00 - —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphoricinoleate, bbls lb. .51 - .61
Sulphydrate, flake, 70-72%, dms., c.l. lb. .05¾- —
i.c.l., works lb. .06¼- —
liquid, 45%, basis 100%, tanks, works ton.95.00 - —
Thiocyanate, CP, dms. lb. .55 - .65
tech., dms., works lb. .30 - —
Thiosulphate, tech. (see Sodium hyposulphite).
USP, cryst., bbls lb. .10 - .12
Titanate, cms., c.l., works lb. .10 - —
5 tons, works lb. .10¼- —
1 ton or less, works lb. .10½- .13½
Tripolyphosphate, bgs., c.l., works, 100 lbs. 7.25 - —
i.c.l. 100 lbs. 7.65 - —
Tungstate, tech., kgs., works lb. 1.20 - —
Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 - —
Sodium-carboxymethylcellulose—See CMC.
Sodium-Cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde, sulfoxylate, dlvd., dms. lb. .22 - .22½
Sodium-sulpha drugs (see Sulpha name).
Sodium-titanium fluoride, fib. dms., c.l., works lb. .16½- —
i.c.l., works lb. .17½- .20
Sodium-zirconyl sulphate, fiber dms., 1,000 lbs. or more, works lb. .28 - —
less 1,000 lbs., same basis lb. .30 - —
Solvent naphtha, coal tar, tanks, works gal. .25 - .3235
high-flash, tanks, works gal. .25 - .3235
Petroleum, 100° F., flash, tanks, Baytown, Tex gal. .25 - —
150 F. flash, tanks, same basis gal. .25 - —
Sorbitol, cryst., pellets, dms., c.l., works lb. .30 - —
ton lots, works lb. .33 - —
solution, commercial, aqueous, dms., c.l., works lb. .23¼- —
ton lots, works lb. .24¼- —
less ton lots, works lb. .25 - —
regular, 70%, aqueous, dms., c.l., works lb. .16½- —
ton lots, works lb. .17¾- —
less ton lots, works lb. .18½- —
tanks, works lb. .15¾- —
Soybean meal, 41% bulk, Decatur ton.58.00 -58.50
protein, chemically isolated, 40,000 lbs., works lb. .18 - —
20,000 lbs., works lb. .18¼- —
smaller lots, works lb .18½- .22
mechanically refined, bgs., 40,000 lbs., works lb 0575- —
20,000 lbs., works lb 0590- —
smaller lots, works lb 0605- —

Cowles CHEMICALS

DRYMET*

THE ECONOMICAL DETERGENT SILICATE

Cowles DRYMET, anhydrous sodium metasilicate, is the most highly concentrated form of sodium metasilicate available. It is more economical to use, on the basis of both Na_2O (alkalinity) and SiO_2 (silicate) than any other type of hydrated or anhydrous detergent silicate, either compounded or by itself. DRYMET contains no water of crystallization.

DRYSEQ*

THE ALL-PURPOSE DETERGENT SILICATE

Cowles DRYSEQ, anhydrous sodium sesquisilicate, is a medium pH alkaline cleaner which will do fast, dependable work at a low cost to the user. It is a white, free-flowing powder, quickly and completely soluble in hot or cold water—containing 56.75% Na_2O—making it an economical base material for compounding.

DRYORTH*

THE HEAVY-DUTY DETERGENT SILICATE

Cowles DRYORTH, anhydrous sodium orthosilicate, is a powerful, speedy, heavy-duty cleaner with valuable penetrating and wetting-out properties, reinforced dirt-removing power and unusual emulsifying action. It is an anyhdrous, free-flowing powdered silicate containing not less than 60% Na_2O, which may also be used as an economical constituent of high pH cleaning compounds.

CRYSTAMET*

THE MEDIUM pH DETERGENT SILICATE

Cowles CRYSTAMET is a pure, perfectly white, free-flowing granular pentahydrate sodium metasilicate with the normal 42% water of crystallization. Suggested for compounding when it is desirable to lower the concentration of a finished product. Readily soluble—chemically stable—easy to handle. Can be used on medium pH jobs.

We'll be glad to send you our DRYMET File Folder containing complete technical information and suggested formulations.

PROMPT SHIPMENTS FROM CONVENIENT WAREHOUSE STOCKS....

*Reg. U. S. Pat. Off.

Cowles Chemical Company

HEAVY CHEMICAL DEPARTMENT • CLEVELAND 3, OHIO

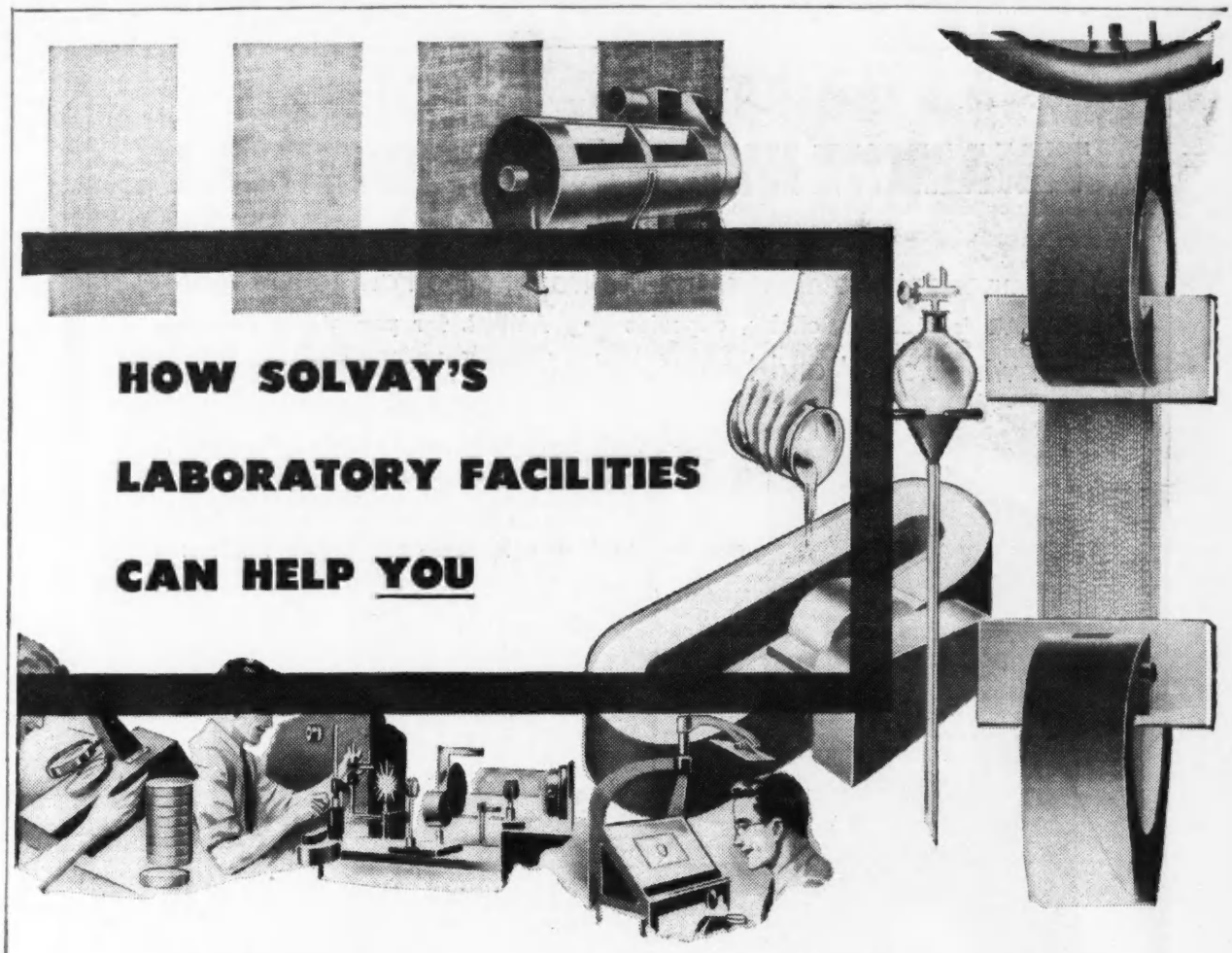
Sparteine sulphate, cns.....oz. 1.00 - 2.95
Spearmint leaves, bls.....lb. .52 - .55
Spikenard root, bls.....lb. .40 - .45
Spruce extract, liq., reg., tanks, works..lb. .01¾- —
powd., super, bgs., c.l., works, lb. .05¼- —
Squaw vine, leaves, bls.....lb. .33 - .36
Squill, red, fortified, powd., bbls, boxes..lb. 1.50 - 1.60
White, bls.....lb. .11 - .12
powd., bbls., bxs.....lb. .16 - .18
St. Ignatius beans, bgs.....lb. No stocks.
St. John's bread, edible, bls.....lb. .17 - .18
Stainless steel flake, dry, dms., works..lb. 1.50 - —
paste, dms., works.....lb. 1.25 - —
Stannous chloride (see Tin chloride, stannous).
Star root (see Helonias root).
Stargrass root (see Aletris root).
Starch, corn, pearl, paper bgs., c.l. 100 lbs. 5.37 - —
Chicago .....100 lbs. 4.72 - —
l.c.l. .....100 lbs. 5.52 - —
powd., paper bgs., c.l....100 lbs. 5.48 - —
Chicago .....100 lbs. 4.83 - —
l.c.l. .....100 lbs. 5.63 - —
Prices for corn starch in cotton bags, 17c. higher.
Potato, dom., bgs., c.l.....lb. .0630- —
l.c.l. .....lb. .07¼- .07½
Rice, bgs. .....lb. .11½- —
Sweetpotato, bgs., c.l.....lb. No stocks.
Wheat, bgs.....lb. .0596- .0646
Stavesacre seed, bgs.....lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls. .....lb. .35 - .38
Stoneroot, bls. .....lb. .07¼- .08
Storax, USP, cs. .....lb. 1.50 - 1.60
Stramonium leaves, bgs.....lo. .19 - .20
Seed, bgs.....lo. .20 - .21
Streptomycin, hospitals, vials..gram. .80 - —
wholesalers, vials.....gram. .64 - —
Strontium bromide, NF, cns., dms., lb. .62 - —
Carbonate, 90%, bbls.....lb. .15½- .16½
Chloride, tech., bbls.....lb. .22 - .24
Chromate, bgs., frt. equald....lb. .43½- .44
Iodide, jars, 25 lbs.....lb. 3.60 - —
Nitrate, bbls., c.l., works.....lb. .09¼- —
l.c.l., works .....lb. .10¼- —
Oxalate, bbls., works.....lb. .42 - .44
Salicylate, NF, dms.....lb. 1.25 - 1.32
Sulphate, air-floated, 90% 325 mesh, bbls., works..ton.58.00 - —
Strontium-calcium sulphide, phosphorescent, dms., works..lb. 2.50 - 2.85
Strophanthin, NF, bots.....oz.39.00 - —
Strophanthus seed, Kombe, bgs..lb. 3.00 - 3.25
Strychnine, NF, powd., cns., 100 ozs. oz. 1.25 - —
Phosphate, NF, 100 ozs.....oz. 1.14 - —
Sulphate, USP, powd., cns., 100 ozs..oz. 1.00 - —
Styrene, monomer, tanks, works..lb. .15 - —
Styrolyl acetate, bots.....lb. 2.50 - 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works..lb. .60 - —
tech., bbls., l.c.l., works....lb. .55 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphabenzamide, dms., works..lb. 4.25 - 4.60
Sulphabenzamide sodium, dms., works..lb. 4.25 - 4.60
Sulphadiazin, USP, dms., works..lb10.25 -10.75
free flowing crystals, dms., works..lb.11.25 -11.75
micro crystals, 99.9%, not over 10 microns, dms., works. lb.10.40 -10.90
Sulphadiazin sodium, USP, dms., works..lb.11.25 -11.75
Sulphaguanidin, USP, dms., works. lb. 4.50 - 4.60
Sulphamerazin, USP, dms., works lb.10.25 -10.75
micro crystals, 99.9%, not over 10 microns, dms., works. lb.10.40 -10.90
Sulphamerazin, sodium, USP, dms., works..lb.11.25 -11.75
Sulphanilamide, USP, powd., bots., works..lb. 1.30 - 1.50
Sulphanilamide, 20-60 mesh, 10c. higher.
Sulphanilamidoquinoxaline, veterinary, dms..lb.12.00 -12.25
Sulphapyridin, NF, powd., bots., tins, works..lb. 7.00 - 7.50
Sulphapyridin-sodium, powd., bots., dms., works..lb. 7.50 - 8.00
Sulphathiazole, USP, powd., dms., works..lb. 3.50 - 3.80
free flowing crystals, dms., works..lb. 4.00 - 4.50
micro crystals, 99.9%, not over 10 microns, dms., works. lb. 3.65 - 3.95
Sulphathiazole-sodium, USP, dms., works..lb. 3.50 - 3.80
Sulphur, com'l, rubbermakers, bgs., c.l., works..100 lbs. 1.75 - —
l.c.l., works.....100 lbs. 2.10 - 2.45
crude, c.l., bulk, mines, contract, long ton.18.00 - —
vessel, f.o.b. Gulf ports, export, long ton.22.00 - —
flour, com'l, 90½%, bgs., c.l., works..100 lbs. 1.60 - —
l.c.l., works.....100 lbs. 1.95 - 2.30
precipitated, USP, bbls., kgs...lb. .27 - .29
refined, flour, light refined, USP, bgs., c.l., works..100 lbs. 3.00 - —
l.c.l., works.....100 lbs. 3.35 - 3.70
heavy, bgs., c.l., works.100 lbs. 2.80 - —
l.c.l., works.....100 lbs. 3.15 - 3.50
Flowers, USP, bgs., c.l., works.. 100 lbs. 3.85 - —
l.c.l., works.....100 lbs. 4.20 - 4.60
Sulphur flowers in bbls., 75c. higher.
rock, bgs., c.l., works...100 lbs. 2.40 - —
l.c.l., works.....100 lbs. 2.75 - 3.10
rolls, bgs., c.l., works....100 lbs. 2.70 - —
l.c.l., works .....100 lbs. 3.05 - 3.70
rubbermakers' bgs., c.l., works. 100 lbs. 2.35 - —
l.c.l., bgs., works.....100 lbs. 2.70 - 3.05
Chloride, 55-gal. dms., c.l., works. lb. .03¼- —
l.c.l., works.....lb. .04¼- —
10-gal. dms., l.c.l., works.....lb. .08¼- —
Dioxide, liquid, com'l, cyls., works..lb. .09 - —
multi-unit cars, works....lb. .0535- —
tanks, works .....lb. .045 - —
refrigeration, cyls., l.c.l., dlvd..lb. .18 - —
Sumac bark, 28%, grd., bgs., ex dock.....ton.65.00 -66.00
Extract, No. 1, bbls., 25%.....lb. .10½- —
No. 2, bbls., 25%.....lb. .09 - —
crystals, bbls. .....lb. .40 - —
stainless, bbls. .....lb. .14½- —
Leaf, 28% grd., bgs., ex-dock, ton.67.00 -68.00
Superphosphate run-of-pile, under 22% a.p.a. pulv., bulk, Baltimore unit-ton. .76 - .77
triple, 48% or more, a.p.a., pulv., bulk, Tampa, Fla..unit-ton. .83 - —
Prices on 48% triple superphosphate in other states and D. C. are per unit-ton plus frt. charges from E. Tampa, Fla. Superphosphate, gran., 2c. per unit-ton higher than pulverized.
Sweet basil, bls.....lb. 1.50 - 1.70

T

Talc, dom., ordinary, grd., Calif., bgs., c.l., works..ton.23.00 -35.00
Vermont, bgs., c.l., works.ton.14.00 - —
l.c.l., works.....ton.17.50 - —
fibrous, New York, off-color, grd., bgs., c.l., works.. ton.24.00 - —
l.c.l. .....ton.26.50 -28.00
fibrous, 98.5-99.5%, 325 mesh bgs., c.l., works.....ton.23.00 -28.00
l.c.l., works.....ton.25.00 -32.00
imp., Canada, grd., bgs., c.l., mines..ton.12.50 -35.00
Tallow, inedible, extra, loose, c.l., dlvd..lb. .06¼- —
fancy, loose, same basis.....lb. .06½- —
special, loose, same basis.....lb. .06 - —
sulphonated, 25%, dms.....lb. .06 - .06¼
50%, dms. .....lb. .08½- .09
Tamarind, W. I., bbls.....lb. .10 - .13
kegs .....keg.10.00 - —
Tankage, animal, feeding, 9-11% ammon, bulk..unit-ton. 8.25 - —
Chicago .....unit-ton. 8.25 - —
fertilizer, 9% ammon., 10% b.p.l., Chicago unit-ton..No stocks.
10-11% ammon., 15% b.p.l., bulk..unit-ton. No stocks.
Tansy leaves, bls.....lb. .24 - .30
Tapioca flour, high grade, bgs....lb. .09 - .09¼
medium grades, bgs.....lb. .08 - .08¾
low grades, bgs.....lb. .07 - .07¼
Java, bgs.....lb. No stocks.
Tar acid oil, 15-18%, dms., c.l., frt. equald..gal. .41 - —
l.c.l., same basis.....gal. .44 - —
tanks, same basis.....gal. .33 - —
Tar acid oil, 25-28%, dms., c.l., works .....gal. .48 - —
l.c.l., same basis.....gal. .51 - —
tanks, same basis.....gal. .40 - —
50-53%, dms., c.l., same basis.. gal. .60 - —
l.c.l., same basis.....gal. .63 - —
tanks, same basis.....gal. .52 - —
Tar coal (see Coaltar).
Pine (see Pinetar).
Tara pods, bgs., c.l., ex docs U. S. ports long ton. No prices.
powd., bgs., c.l., same basis.... long ton.225.00 Nom.
Tarragon herb, bgs. .....lb. .45 - .50
Leaves, bgs.....lb. .80 - .90
Tartar emetic, tech., gran., or powd., bbls., kgs..lb. .46 - —
dms. .....lb. .47 - .51
USP, powd., bbls., dms., kgs..lb. .51 - .54
Terpin hydrate, com'l, bbls., c.l..lb. .24½- —
l.c.l. .....lb. .25 - .25½
NF, cryst., bbls., dms.....lb. .75 - —
powd., bbls., dms .....lb. .80 - —
Terpineol, Alpha (see A).
com'l, dms., c.l., South.....lb. .13½- —
l.c.l., South .....lb. .14 - —
tanks, South .....lb. .13 - —
prime, dms.....lb. .33 - .60
Terpinglycol ether, dms., c.l., works. lb. .19½- —
l.c.l., works.....lb. .20 - —
tanks, works .....lb. .19 - —
Terpinyl acetate, extra, cns., dms. lb. .60 - 1.03
prime, cns., dms.....lb. .55 - .95
Terra alba (see Gypsum).
Testosterone propionate, USP, 100 gms..gm. 3.75 - —

Sparteine Sulphate—Timbo Root

Tetrachloroethane, dms., works lb. .08 - .08¼
Tetrachloroethylene, USP, 55-gal. dms., works..lb. .20½- .21¼
smaller dms., works lb. .23½- .25
tech. (see Perchloroethylene).
Tetraethyl orthosilicate dms., works. lb. .70 - —
Pyrophosphate, 40%, cns., dms., works..lb. .65 - .70
Tetraethylenepentamine, dms., c.l., works..lb. .51¼- —
l.c.l., works.....lb. .52 - —
tanks .....lb. .50 - —
Tetrapotassium phosphate (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium sulphate, 99%, bots., dlvd. lb.13.00 -15.50
Theobromine, bots., kgs.....lb. 5.00 - —
Salicylate, fib. dms.....lb. 5.00 - 5.25
with sodium acetate, USP, fib. dms..lb. 4.00 - 4.45
Sodio-Salicylate, fib. dms....lb. 3.15 - 3.50
Theophylline, USP, bots., kgs...lb. 6.00 - 6.15
Thiamine hydrochloride, USP, dms., 100 grams..kilo.160.00 - —
Thiocarbanilide, dms.....lb. .34 - .35
Thiodiphenylamine (see Phenothiazine)
Thiouracil, dms., works .....lb. 5.50 - 5.60
Thiourea, tech., dms., c.l., works lb. .42 - —
l.c.l., works .....lb. .44 - —
Thorium nitrate, cs., works .....lb. 3.50 - —
Threonine, dextro-laevo, 100 grams 115.00 - —
Thyme, French, bgs.....lb. .16 - .17
Spanish, bls. .....lb. .08½- .09
Thymol, USP, kgs.....lb. 3.65 - 3.75
Iodide, NF, dms.....lb. 6.80 - 6.90
Timbo root (see Cube root).



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Tin Chloride—Vitamin A

Tin chloride (stannous), anhyd., dms.	lb.	.6235	.6325
Crystals, hydrous, bgs., bbls., works	lb.	.68 -	—
Metal, R.F.C.	lb.	.95 -	—
Straits	lb.	.87	Nom.
Oxide, bbls	lb.	.95 -	.96
Sulphate, stannous, bbls., kgs., works	lb.	.9342	.9540
Tetrachloride, anhyd., dms., wks.	lb.	.56 -	.57
Titanium dioxide, anatase, ceramic, bgs., c.l., dlvd	lb.	.19½-	—
l.c.l., dlvd	lb.	.20 -	.20½
chalk-resistant, bgs., c.l., dlvd.	lb.	.19½-	—
l.c.l., dlvd	lb.	.20	.20½
plain, bgs., c.l., dlvd	lb.	.19½-	—
l.c.l., dlvd	lb.	.20 -	.20½
rutile, natural, granular, bgs., c.l., works	lb.	.05 -	—
5-ton lots, works	lb.	.05¼-	—
milled, bgs., c.l., works	lb.	.05¼-	—
5-ton lots, works	lb.	.05¼-	—
nonchalking, bgs., c.l., dlvd E.	lb.	.21½-	—
l.c.l., dlvd. E	lb.	.22 -	.22½
Hydride, cns., works	lb.	7.00	8.00
Pigment, calcium-rutile, base, bgs., c.l., dlvd	lb.	.07½-	.07¾
l.c.l., dlvd	lb.	08 -	.08¾

Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse, ¼c. higher.

Tetrachloride, CP, 53-gal. dms	lb.	.54½-	.55
smaller, pkgs., works	lb.	.65 -	1.22
technical, 5-gal. dms., works	lb.	.32 -	—
smaller pkgs., works	lb.	40 -	1.00
Tolu balsam, cns., dms	lb.	1.95 -	2.60
Toluene (see Toluol).			
Toluidin base (see Orthotoluidin.)			
Toluol, coaltar, industrial and nitration, tanks, works:—			
Bethlehem, Pa	gal.	.21½-	—
Birmingham, Ala	gal.	.20¼-	—
Chicago district	gal.	.23½-	—
Cleveland district	gal.	.23 -	—
Dangerfield, Tex	gal.	.23½-	—
Geneva, Utah	gal.	.19 -	—
Hamilton, Ohio	gal.	.22 -	—
Johnstown, Pa	gal.	.20 -	—
Lackawanna, N. Y.	gal.	.23 -	—
Philadelphia, Pa	gal.	.24 -	—
Pittsburgh district	gal.	.20 -	—
Sparrow's Point, Md	gal.	.21½-	—
St. Louis, Mo	gal.	.25 -	—
Syracuse, N. Y.	gal.	.20½-	—
Terre Haute, Ind	gal.	.24½-	—
Woodward, Ala	gal.	.20¼-	—
Wyandotte, Mich	gal.	.23 -	—
Youngstown, Ohio	gal.	.20½-	—
Petroleum, industrial, 2°, tanks, works:—			
Albany, N. Y	gal.	.28 -	—
Bayonne, N. J.	gal.	.28 -	—
Baytown, Tex.	gal.	.25 -	—
Chicago, Ill.	gal.	.27 -	—
Detroit, Mich.	gal.	.28 -	—
Philadelphia, Pa.	gal.	.28 -	—
Providence, R. I.	gal.	.28 -	—
Sewall's Point, Va	gal.	.25½-	—
Wood River, Ill	gal.	.25 -	—
Tonga, 50% bark and vine, bls.	lb.	.80 -	.95
Tonka beans, Angostura, cks	lb.	1.75 -	1.80
Brazilian, cs	lb.	.85 -	.90
Surinam, cs.	lb.	.85 -	.95
Toxaphene, dms., works, c.l.	lb.	.20 -	—
truckloads, works	lb.	.20 -	—
ton to truckloads, works	lb.	.23 -	—
less than tons, works	lb.	.26 -	—
Totaquine, USP, 100-oz. lots	oz.	.42 -	—
Triacetin, dms., dlvd	lb.	.35½-	—
Tributyl citrate, dms.	lb.	.41 -	.43
smaller containers	lb.	.46 -	.53
Phosphate, dms., c.l., frt. alld.	lb.	.56½-	—
l.c.l.	lb.	.57½-	—
smaller containers	lb.	.71 -	—
Tributylamine, dms., c.l., works	lb.	.76 -	—
l.c.l., works	lb.	.81 -	—
Trichlorbenzene, dms., c.l., works, frt. alld. or equald	lb.	.10 -	—
l.c.l.	lb.	.11 -	—
tanks	lb.	.06½-	—
Trichloroethane, dms., c.l., works	lb.	.12 -	—
l.c.l., works	lb.	.13 -	—
tanks, works	lb.	.11 -	—
Trichloroethylene, tanks, c.l., frt. alld., zone 1	lb.	.10½-	—
Zone 2	lb.	.11 -	—
Zone 3	lb.	.11½-	—
Zone 4	lb.	.11 -	—

Trichloroethylene, dm., c.l., prices ½c. higher, l.c.l. 1¼c. higher, Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. H., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Tricholine citrate, 65% solut., ret., cbys., works, frt. equald	lb.	2.55 -	—

Thicholine citrate work's prices equaled with N. Y., Phila., St. Louis, and Los Angeles.

Tricresyl phosphate, coaltar, dms., c.l., dlvd	lb.	.35 -	—
l.c.l., dlvd.	lb.	.35½-	—
tanks, dlvd.	lb.	.33½-	.34
petroleum, dms., c.l., dlvd	lb.	.34½-	—
l.c.l., dlvd.	lb.	.35 -	—
tanks, dlvd.	lb.	.33 -	—
Triethanolamine, dms., c.l., frt. alld.	E lb.	.23 -	—
l.c.l., same basis	lb.	.24 -	—
tanks, same basis	lb.	.21½-	—
Triethyl citrate, dms.	lb.	.34 -	.38
smaller containers	lb.	.39 -	.44
Phosphate, dms., works, c.l.	lb.	.39 -	—
dms., l.c.l., same basis	lb.	.39 -	—
tanks, same basis	lb.	.37 -	—
Triethyleneglycol, dms., c.l., frt. alld. E	lb.	.20½-	—
l.c.l., same basis	lb.	.21½-	—
tanks, same basis	lb.	.19 -	—
Triethylenetetramine, dms., c.l., works	lb.	.51½-	—
l.c.l., works	lb.	.52 -	—
tanks	lb.	.50 -	—
Trimethylamine, 25%-40%, dms., c.l., works, basis 100%	lb.	.38 -	—
l.c.l., works, basis 100%	lb.	.38½-	—
tanks, works, basis 100%	lb.	33 -	—
Trimethylhexanol, dms., c.l., works.	lb.	.29½-	—
l.c.l., works	lb.	.30 -	—
tanks, works	lb.	.28 -	—
Tripentaerythritol, bgs., l.c.l., works.	lb.	.36 -	—
Triphenyl phosphate, bbls., c.l., frt. equald	lb.	.31 -	—
l.c.l., frt. equald	lb.	.32 -	—
Triphenylguanidine bbls., works	lb.	.90 -	—
Tripoli, air-floated, bgs., c.l., works.	lb.	.0175-	—
double-grd., bgs., c.l., works	lb.	.016 -	—
single-grd., bgs., c.l., works	lb.	.015 -	—
Trisodium fluoroacetate (see sodium fluoroacetate tribasic).			
Trisodium pnosphate (see Sodium phosphate, tribasic).			
Trypsin, 1:25, dms., works	lb.	2.30 -	—
1:50, dms., works	lb.	4.25 -	—
1:75, dms., works	lb.	5.50 -	—
1:100, fib. dms., works	lb.	5.50 -	—
Tryptophane, dextro-laevo, fib. ctns., works	kilo.	207.00	242.00
Tuba root (see Cube root).			
Tungsten metal, powd., 99.9%, dms. works	lb.	4.75 -	—
Oxide, kgs., works	lb.	2.85 -	—
Turmeric root, Alleppey, bgs	lb.	.38 -	.38½
Haitian, bgs.	lb.	.11½-	.12
Jamaica, bgs	lb.	.11 -	.11½
Madras, bgs	lb.	.20 -	.21
Turpentine, gum (see Naval Stores Protective Coatings market)			
Sulphate, ret. dms., East	gal.	.23 -	—
Wood dest. dist., dms., incl., c.l., works, South	gal.	.40 -	—
l.c.l., same basis	gal.	.41 -	—
N. Y. whse	gal.	.45 -	—
tanks, works, South	gal.	.27½-	—
steam-dist., dms., incl., c.l., works	gal.	.50 -	—
l.c.l., works, South	gal.	.56 -	—
ex whse., NYC	gal.	.64 -	—
tanks, works	gal.	.34 -	—
Tyrothricin, bots.	gram.	1.15 -	1.25

U

Urethane, USP, dms	lb.	1.75 -	—
Unicorn root, false (see Helonias root). True (see Aletris root).			
Uranium oxide, black, bgs	lb.	2.55 -	—
yellow, kgs.	lb.	1.65 -	—
Urea, dom., 46% N, bgs., c.l., wks.	lb.	.04½-	—
l.c.l., works	lb.	.05 -	—
Fertilizer compound, 42% N, bulk, c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex. and east	ton.	94.00 -	—
42% N, bulk, distributors, c.l., 40 tons, frt. alld. Colo., Mont., Wyo., and west	ton.	103.58 -	—
paper bgs., c.l., 30 tons, frt. alld., Kan., Neb., N. Dak., Okla., S. Dak., Tex., and east	ton.	98.00 -	—
40 tons, distributors, frt. alld. Colo., Mont., Wyo., and west	ton.	107.15 -	—
Urea-ammonia liquor, A and B grades, N basis, Belle, W. Va	ton.	125.00 -	—
C and D grades, same basis.	ton.	123.50 -	—
37 grade, same basis	ton.	147.50 -	—
Uva ursi leaves, bls	lb.	.10 -	.14

V

Valerian root, Belgian, NF, bls	lb.	.45 -	.50
Valine, dextro-laevo, dms., works	lb.	22.50	27.50
Valonia beards, bgs., ex dock	ton.	No stocks.	
Cups, bgs., ex dock	ton.	61.00	62.00
Extract, powd., bgs., ex dock, duty extra	lb.	.14½	Nom.
Vanadium pentoxide, CP, bgs., cns., works	lb.	7.00 -	—
tech., dms., works	lb.	1.00 -	1.06
Vanilla beans, Bourbon, tins	lb.	3.50 -	4.25
Mexican, cuts, tins	lb.	4.00 -	4.25
whole, tins	lb.	4.75 -	5.50
Vanillin, ex eugenol, tins, 25 lbs	lb.	4.00 -	—
smaller lots	lb.	4.05 -	—
ex guaicol, tins, 25 lbs	lb.	3.00 -	—
smaller lots	lb.	3.05 -	3.15
ex lignin, tins, 25-lb. lots	lb.	3.00 -	—
smaller lots, tins	lb.	3.05 -	3.15
Vinyl acetate, 55-gal. dms., works	lb.	.16½-	.17½
5-gal. cns., works	lb.	.30 -	—
tanks, works	lb.	.15 -	—
Trichloride (see Trichloroethane).			
Ether (see Ether, divinyl).			
Vinylpyridin, ret. dms., works	lb.	1.50 -	—
Viosterol, bots., 10 billion USP units.	mill. units.	.025 -	—
1 billion USP units	mill. units.	.03 -	—
less than 1 billion USP units	mill. units.	.035 -	—
Vitamin A, natural, acetate, bots., cns., dms., 200,000 to 350,000 A units per gm. 1,000,000 units.		.28 -	.33
351,000 to 450,000 A units per gm. 1,000,000 units.		.30 -	.34
451,000 to 750,000 A units per gm. 1,000,000 units.		.33 -	.37
751,000 or more A units per gm. 1,000,000 units.		.35 -	.39

Minimum prices on natural Vitamin A acetate above prevail on quantities of five billion or more A units; the maximum of the above price range prevails on quantities less than one-half billion A units.

A, natural, concentrates (see Oil, fishliver).
A, synthetic, acetate, 1,000,000 A units, per gm. 1,000,000 units. .40 - —
A, synthetic, palmitate, 800,000 A units per gm. 1,000,000 units. .40 - —
D_2 (see Calciferol).
B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
Vitamin B_6 (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver and fishliver, Calciferol and Viosterol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
P-F (see Acid, nicotinic, and Nicotinamide).
H (see Biotin).
Violet, methyl toner (see Blue, methylviolet toner).
V.M.P. naphtha (see Petroleum naphtha).
Vitamin A (see Oils, codliver, fishliver).

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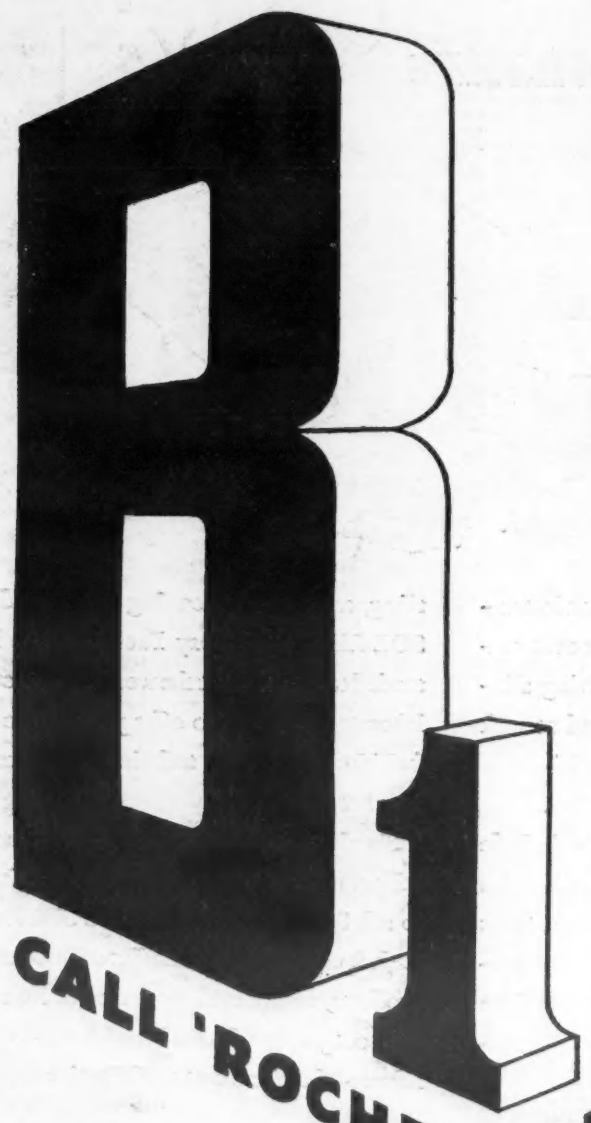
Ascorbic Acid a-Tocopherol
Pyridoxine Panthenol



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W

Wahoo root bark, bls	lb.	1.50	1.75
Tree bark, bls	lb.	.55	.75
Wattle bark, fair average, or E. Afr., bgs., ex dock	ton.	65.00	—
merchantable, bgs., ex dock	ton.	62.00	-63.00
extract, liquid, 35% tannin, bbls., works	lb.	.04¾-	.05
tanks, works	lb.	.04¼-	—
solid, E. Afr., 61% tannin, ex dock, duty extra	lb.	.06¾-	—
S. Afr., 62% tannin, ex dock, duty extra	lb.	.06¾-	—
Wax, amorphous (see Wax, microcrystalline).			
Bayberry, bgs., spot	lb.	No stocks.	
Bees, bleached, USP, white, bricks, cs	lb.	.64	.65
slabs, bgs	lb.	.63	.64
crude, African, bgs	lb.	.45	.47
western hemisphere, bgs.	lb.	.47	.52
refined, yellow, bricks, cs	lb.	.56	.57
slabs, bgs	lb.	.54	.55
Candelilla, crude	lb.	.46	.47
refined, bgs	lb.	.49	.50
Powdered candelilla, 20 mesh, 5c. per lb. extra; 80 mesh, 5½c.; 100-200 mesh, 6c.			
Carnauba, chalky, bgs. ton lots	lb.	No stocks.	
North Country, No. 2, ton lots	lb.	.85	.86
No. 3, crude, bgs., ton lots	lb.	.83	.84
refined, bgs., ton lots	lb.	.87	.88
yellow, No. 1, bgs., ton lots	lb.	1.11	1.13
No. 2	lb.	1.09	1.11
Powdered carnauba price differentials same as powdered candelilla			
Japan, bgs	lb.	.75	.76
Microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 20,000 lbs., group 3, works	lb.	.14	—
Less than 20,000 lbs., same basis	lb.	.15	—
black, ctns., 20,000 lbs., same basis	lb.	.12½-	—
Less than 20,000 lbs., same basis	lb.	.13½-	—
white, ctns., 20,000 lbs., same basis	lb.	.25	—
Less than 20,000 lbs., same basis	lb.	.26	—
180°-185° m.p., ASTM, amber, ctns., 20,000 lbs., same basis	lb.	.16	—
Less than 20,000 lbs., same basis	lb.	.17	—
180°-185° m.p. ASTN, black, ctns., 20,000 lbs., same basis	lb.	.14½-	—
Less than 20,000 lbs., same basis	lb.	.15½-	—
white, ctns., 20,000 lbs., same basis	lb.	.27	—
Less than 20,000 lbs., same basis	lb.	.28	—
190°-195° m.p., ASTM, amber, ctns., 20,000 lbs., same basis	lb.	.20½-	—
Less than 20,000 lbs., same basis	lb.	.21½-	—
black, ctns., 20,000 lbs., same basis	lb.	.19	—
Less than 20,000 lbs., same basis	lb.	.20	—
white, ctns., 20,000 lbs., same basis	lb.	.33½-	—
Less than 20,000 lbs., same basis	lb.	.34½-	—
Montan, dom. black ref.	lb.	.31	.32
raw	lb.	.25	.25½
Bohemian, bgs	lb.	.19	.20
German, bgs.	lb.	.20	.21
Ouricury, refined, bgs., ton lots,	lb.	.75	.77
Spermaceti, blocks, cs	lb.	.32	.33
cake, cs.	lb.	.33	.34
Sugar cane, crude, imp. bgs	lb.	.35	.37
refined, dom., slabs, works	lb.	.60	.65
imp. bags, N.Y.	lb.	.41	.43
White lead (see Lead, white).			
White pine bark, rossed, bls	lb.	.13	.20
White precipitate, USP, powd., dms., 50 lbs	lb.	2.00	—
Whiting, limestone, dry-grd., 99.5%, 325 mesh, bgs., c.l., works.	ton.	6.00	-10.00
smaller lots, works	ton.	6.50	-15.00
wet-grd., bgs., c.l., works	ton.	16.00	-30.00
smaller lots, works	ton.	21.00	-35.00
Paris white, bgs., c.l.	ton.	24.00	-31.00
l.c.l.	whse. ton.	25.00	-40.00
Precipitated, bgs., c.l.	ton.	18.00	-20.00
l.c.l.	ton.	25.00	-35.00
Wild cherry bark, thick, natural, bls	lb.	.06	.07
rossed, bls	lb.	No prices.	
thin, natural, bls	lb.	.13½-	.16
rossed, bls	lb.	.17	.18
Wild indigo root, bls	lb.	.30	.31
Wild yam root, bls.	lb.	.16	.17
Witch hazel leaves, bls	lb.	.20	.25
Woodflour, 40 mesh, bulk, c.l., works, East	ton.	32.00	—
l.c.l., same basis	ton.	40.00	—
60 mesh, bulk, c.l., same basis.	ton.	37.00	—
l.c.l., same basis	ton.	45.00	—
80-100 mesh, bulk, c.l., same basis	ton.	40.00	-45.00
l.c.l., same basis	ton.	50.00	-55.00
Woodflour in bgs. extra, returnable.			
Woolfat (see Lanolin).			
...nseed, American, bgs	lb.	.13	.14
...ant, bgs	lb.	4.15	4.25
...mwood leaves, bls	lb.	.40	.45

X

Xanthorrhiza root, bls	lb.	.28	.30
Xylene (see Xylol).			
Xylenol, 5° 7°, ret. dms., c.l., works, frt. equald	lb.	.21¾-	—
l.c.l., same basis	lb.	.22¼-	—
tanks, same basis	lb.	.21	—
45°, dms., l.c.l., frt. equald	lb.	.24	—
fractions, over 7° C, dms., c.l., same basis	gal.	.91	—
l.c.l., same basis	gal.	.94	—
tanks, same basis	gal.	.80	—
Meta fraction, over 7° C, dms., c.l., same basis	gal.	.96	—
l.c.l., same basis	gal.	.99	—
tanks, same basis	gal.	.85	—
Xylidins, mixed, dms	lb.	.45	.50
Xylol, coaltar, industrial, tanks, works —			
Bethlehem, Pa	gal.	.26	—
Birmingham, Ala	gal.	.23¼-	—
Chicago district	gal.	.26½-	—
Cleveland district	gal.	.26	—
Dangerfield, Tex.	gal.	.27	—
Hamilton, Ohio	gal.	.23	—
Johnstown, Pa.	gal.	.24	—
Lackawanna, N. Y.	gal.	.24	—
Pittsburgh district	gal.	.23	—
Sparrows Point, Md.	gal.	.26	—
St. Louis, Mo	gal.	.28	—
Syracuse, N. Y.	gal.	.23½-	—
Terre Haute, Ind.	gal.	.26	—
Woodward, Ala.	gal.	.23¼-	—
Wyandotte, Mich.	gal.	.27	—
Youngstown, Ohio	gal.	.23½	.25
Xylol, petroleum, indust., 10°, tanks, works:—			
Albany, N. Y.	gal.	.28	—
Bayonne, N. J.	gal.	.23	—
Baytown, Tex.	gal.	.25	—
Chicago, Ill.	gal.	.27	—
Detroit, Mich.	gal.	.28	—
Philadelphia, Pa.	gal.	.28	—
Providence, R. I.	gal.	.26	—
Sewall's Point, Va.	gal.	.25½-	—
Wood River, Ill.	gal.	.27	—

Y

Yara, yara, cns	lb.	2.00	2.25
Yeast brewer's dry, USP, 50 B units, per gram, 100-lb. dms	lb.	.44	.46
90 B units, per gram, 100 lb. dms	lb.	.49	.51
200 B units, per gram, 100 lb. dms	lb.	.53	.55
300 B units, per gram, 100 lb. dms	lb.	.57	.59
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis St. Paul	lb.	.32	—
Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.			
Benzidin, bbls., dlvd.	lb.	1.60	1.70
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies	lb.	2.65	—
Lithopone, all shades, bbls., frt. alld. E. of Rockies	lb.	.95	—
Cadmium yellows, Los Angeles and San Francisco, ex whse. l.c. per lb. higher.			
Yellow, chrome, CP, bbls., dlvd. N. Tenn. and N. C. E. of Miss., including Davenport, Minneapolis, Rock Island,	lb.	.32	—
Dlvd. Ala.; Fla., Ga., La., (Shreveport) 1¼c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1¼c. higher; Ft. Worth, Tex. 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago			
Hansa, bbls., same basis as chrome	lb.	1.60	1.70
Primrose, bbls., same basis	lb.	1.90	2.10
Iron oxide, natural, bgs., c.l., works	lb.	.0141-	.0250
l.c.l., works	lb.	.0166-	.0275
French type, bgs., c.l.	lb.	.04½-	—
l.c.l.	lb.	.04¾-	—
Peruvian type bgs., c.l.	lb.	.0185-	.0210
synth. bgs., c.l. works	lb.	.09	—
l.c.l. works	lb.	.09¼-	—
Mercury oxide, bbls., 1,000 lbs	lb.	1.93	—
smaller lots	lb.	1.95	—
Ocher American golden, bgs., works	lb.	.01¼	.02¾
Zinc, bots. same basis as chrome	lb.	.23½-	—
Yellow dock root, bls	lb.	.16	.25
Yellow xanthorrhiza (see Xanthorrhiza)			
Yerba santa leaves, bls	lb.	.28	.30
Yohimbine hydrochloride vls	oz.	3.25	4.00

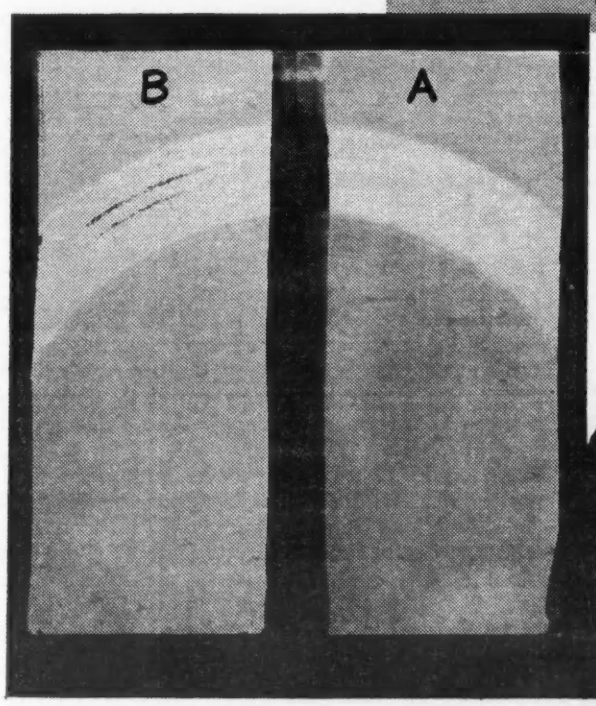
Z

Zein, bgs., 36,000 lbs., works	lb.	.30	—
1,000 lbs. to 36,000 lbs., works	lb.	.32	—
smaller lots works	lb.	.35	—
Zinc acetate, tech., bbls., dms	lb.	.26¼-	—
NF, dms.	lb.	.38	—
Arsenite, bgs., c.l., frt. alld. E of Rockies	lb.	No stocks.	
l.c.l., same basis	lb.	No stocks.	
Borate, bgs., c.l., ship't pt., frt. alld., E	lb.	.12	.15½
frt. alld. Pac. Coast	lb.	.15	.17½
l.c.l., ship't pt., frt. alld. E	lb.	.12½-	.16
frt. alld. Pac. Coast	lb.	16¾-	.19¼
Carbonate, tech., rubber makers, bgs., works	lb.	.10¾-	.11½
precip., powd., dms	lb.	26	—
Purified precip., dms	lb.	37	—
Chloride, tech., fused, dms., c.l., works, 100 lbs.		7.00	—
l.c.l., works 100 lbs.		7.40	—
gran., bbls., c.l., works 100 lbs.		7.75	—
l.c.l., works 100 lbs.		8.15	—
solution, 50%, dms., c.l., works, 100 lbs.		3.90	—
l.c.l., works 100 lbs.		4.50	—
tanks, works 100 lbs.		3.25	—
NF, gran., dms	lb.	.42	—
Chromate (see Yellow, zinc).			
Cyanide, kgs., works	lb.	.38	.41
Dust, bbls., c.l., works	lb.	.1223-	—
dlvd.	lb.	.1250-	—
l.c.l., works	lb.	.1260-	.1325
Fluoride, bbls., works	lb.	.40	—
Hydrosulphite, dms., c.l., frt. alld.	lb.	.17¼-	—
l.c.l.	lb.	.17¾-	.18
Iodide, NF, jars	lb.	4.85	—

—Continued on page 59

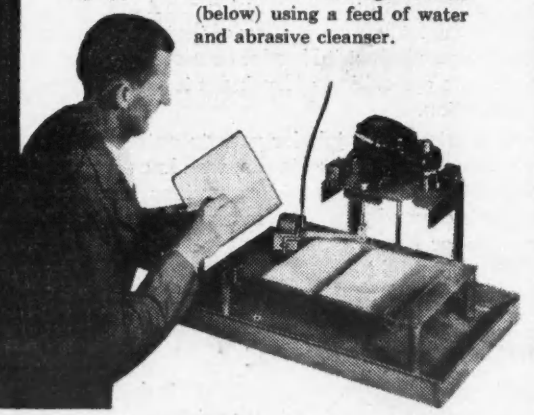
In Floor, Porch and Deck Enamels Add More SCRUB RESISTANCE with... ALBALITH-73

(THE WATER-REPELLENT LITHOPONE)



A change of pigment alone made this difference (left) in scrub resistance of a gray, phenolic, porch-and-deck enamel. White pigment in Paint A is Albalith-73; Paint B contains an equal volume of a softer-drying white pigment.

The films were applied at equal thickness on glass by a spreader, allowed to dry thoroughly, then tested on a scrubbing machine (below) using a feed of water and abrasive cleanser.



Ever notice the difference in scrub-resistance properties of white hiding pigments?

Some have physical and chemical characteristics that promote the formation of dense, tough films with good through-dry . . . features that help paints stand up under heavy scrubbing.

Albalith-73 is like that. Both its lithopone base and its water-repellent treatment impart better scrub-resistance than do softer-drying, untreated pigments.

Albalith-73 also provides fast mixing, better suspension, less color floating, good tint retention and improved abrasion resistance.

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Pensions Are Private Affairs

Although the widely adduced analogy of providing pensions for workmen and providing against the obsolescence of machinery does not measure up to that description, there can be no denying that the pension plan has become a part of the national economy. The idea has merits far beyond those presented by its protagonists; it does not, on the other hand, present or reflect much of what is argued in its favor.

Now that recognition of the status of the pension plan has more or less been forced upon business management, the opinions voiced concerning its construction and operation are as many and as varied as is characteristic of all theories and tenets in economics. In view of recent news items about what has happened to the miners' welfare fund, some of the theories would best be totally disregarded.

It is particularly worthy of note in connection with an analysis of views on the pension plan that the president of one of the largest corporations involved in a pension agreement has advocated that the plan be set up by the Federal government as a sort of expansion of the social security plan. It is difficult to see why an industrial leader should even suggest that the meddling of government in the relations of employer and employee with respect of compensation should be expanded. It is a sorry reflection on the perceptive capacity of business management that the providing of social security, old age pensions, retirement funds, or whatever they may be called ever got at all into the hands of government. If such provisions are desirable—and there are many things in their favor—they are a part of efficient business management. To the extent that they are left to political opportunists, their neglect contributes to paternalism in government which is but a short step from socialism. Why the further shortening of that step should be advocated by an industrial leader cannot be explained in terms of the opposition of business to nationalization or socialization.

Providing pensions is a job for private enterprise. It should be approached by the simple, well known channels by which individuals provide annuities for themselves and their dependents. The manner of their funding is a matter for negotiation. That is the only place where government might have a part; because, whoever puts up the money, the consuming public pays the cost.

For Better Governing

A national reorganization conference is being arranged for December 12 and 13 in Washington. It is not a political project, in the usual sense of that term. The sponsor of the conference is the Citizens Committee for the Hoover Report. The reorganization with which it will be concerned is that which the Hoover committee set forth as its findings in respect of requirements for more efficient, less expensive governmental functioning.

The extent to which the citizens' committee is in agreement with the suggestions and recommendations of the Hoover committee cannot, of course, be definitely stated. The conference, however, will cover all that has been done—estimated to be about 20 percent of what was recommended—and all that remains to be done. The objective is to get what is yet to be done disposed of by Congress in its 1950 session. That does not even imply that the disposal must all be approval; there are some points in the Hoover program which do not fit into the general purpose; some, especially in connection with welfare, which point diametrically opposite to that purpose.

It has been estimated that the Hoover proposals thus far approved by Congress represent a potential saving of $1,250,000,000 in annual governmental costs. It is interesting, however, to see reports that, although sizeable reductions have been made here and there in office staffs, merged offices in other instances have more employees than were in their component units. It is also interesting to learn that, whatever may have been the size of the widely bewailed dismissal of government employees, the total of the payroll has been increased. Something, of course, can be said in favor of economizing in men, rather than in money. But, labor-saving without substantial consequent reduction of costs is not economically sound, especially now that the wages of unemployment must be dug up by the taxpaying public.

Not all that Congress set up in some sort of compliance with the Hoover report has worked out according to the expectations therein. It is common gossip that many of those who were ousted from jobs conferred upon them in recognition of political service have been put in others with at least as much pay. More gets into the public prints about the President's circumventing of congressional antipathies toward lame ducks than about how congressmen take care of their particularly useful constituents.

So, the citizens' conference on government reform will have a variously interesting program. Its objective, on the whole, is a commendable one. The attainment thereof is not going to be simple or easy. Even lip or letter service will be difficult to get for some of the aims. From available data, it is to be presumed that the conference will be well informed and well guided. It is most desirable that its findings be properly and adequately made known to the public, and that its suggestions and advice to Congress be backed by individual commendation from every congressional constituency.

To Survey Health Needs

Some five years ago, the National Physicians Committee for the Extension of Medical Service, one of the most vigorous opponents of "socialized" or "political" medicine, issued a report of a survey on what the people of the United States thought about doctors, medical care, and prepayment plans. It aptly called its findings "a challenge to private enterprise." That challenge has not yet been met.

Some ten days ago, the American Dental Association, American Hospital Association, American Medical Association, American Nurses Association, American Public Health Association, and American Public Welfare Association, jointly organized the Inter-Association Committee on Health. The new organization is designed to cooperate on "the highest national levels" for the improvement of overall health service. Private enterprise is really entering the ring.

Evidence has been got by the committee, it says, that there "are definite shortages, both in number and distribution of qualified personnel with relation to total needs in the fields of nursing and public health" and that "insofar as physicians are concerned, there is . . . need of better distribution." Private enterprise is beginning to get warmed up. That challenge of what the people think—and what they need—may yet be privately met and disposed of.

Washington Talks It Over

—*Continued from page 5*

sist order against Arta Cosmetics, Inc., claiming that its product, "Imra," a depilatory, was not safe for use under the directions provided and ordering the company to stop advertising that it will not irritate a normal skin. The order was based in part upon a finding that certain injuries resulted from the use of the product, even though directions for its use were followed and the skin of the user was normal.

It now turns out that this finding was based almost wholly upon the testimony of witnesses who were not qualified, either by training or experience, to properly determine the cause of their injuries. There was substantial medical testimony in the record to the effect that the product was reasonably and comparatively safe when used as directed, but this was overlooked in the finding.

When the error in the finding of fact was brought to the commission's attention by the company and the commission's counsel failed to file any answer, the agency promptly vacated and set aside its previous desist order.

Health Insurance Boosted

Democratic political victories in the elections earlier this month in New York, Pennsylvania, and elsewhere are being viewed by the administration as a new mandate from the people to go ahead with its social programs. The political leaders in the government are imbued with a new spirit of optimism and are taking to the airways and highways to get the program across to the people.

A typical example of the "new feeling" was the radio speech last Monday night of Federal Security Administrator Oscar Ewing. For some months there has been a visible lull in the administration's drive for compulsory health insurance, but this has all been changed by Mr. Ewing. He aimed his speech at a point where it would prove most effective—at the people's purses. He compared the cost of government insurance and private insurance in a way that left the listener with no doubts as to which is cheaper.

He promised eyeglasses to the near blind, hearing aids to the near deaf, and teeth to the toothless. Also, expensive medicines like streptomycin, X-rays, specialist care, sixty days of hospital and nursing care, and all the other "bests" that medical science can offer "for yourself and your family"—all for the price of 1½ percent of your salary. Arguments made in such glowing terms put the opponents of compulsory health insurance on the defensive—but definitely.

Platinum Dust Salvaged

Salvage operations of the Department of Defense at its war surplus ammunition plants is paying off in recovery of considerable amounts of strategically important precious metals to go into the national stockpile. The department reports that already $90,000 worth of platinum and rhodium has been recovered.

The metals are in the form of dust within ammonia oxidation units at five ordnance works. The total collected to date is over 1,770 troy ounces. When properly refined, this quantity of metal is expected to break down into nearly 1,300 troy ounces of platinum, worth $69 per ounce, and about 41 ounces of rhodium, worth $120 per ounce.

Platinum and rhodium are used as catalytic agents in the manufacture of explosives in wartime. These agents cause certain chemical action to take place without themselves being expended. The continuous chemical action gradually breaks away particles which settle as a fine, but heavy, sediment within the chemical equipment. It is this sediment or dust which is now being salvaged.

For the Bookshelf

PATENT LAW FOR THE EXECUTIVE AND ENGINEER. By H. A. Toulmin, jr. Cloth; 231 pages. Dayton, Ohio: Research Press, Inc.

F. A. Scott, formerly board chairman of the Warner & Swasey Company, introducing this book, says:—"In the present work, Colonel Toulmin has produced a book which in scope, arrangement, and sense of perspective presents this subject understandingly, succinctly, and, for myself I must add, alluringly." It must be admitted that there is a need for such a treatise on patent law. The author has had thirty-five years of direct actual experience to qualify him.

The scope of this little book is broad; but, the treatment has not been spread uselessly thin. It is a guide to, not a course in patenting. The contents encompass the how of patenting and the why. They go into those eternal problems of whether the employer or the employee owns what the latter discovers; where the antitrust laws and the patent laws agree or disagree; what can be patented. One chapter has the pertinent title, "Special Patent Problems of the Chemical Industry."

The executive who wants to know what is all this stuff about patents will have use for this explainer.

MONETARY MANAGEMENT. By E. A. Goldenweiser. Cloth; xiv + 175 pages. New York: McGraw-Hill Book Company. $2.75.

This is the report of a research study for the Committee for Economic Development. It attempts to present briefly the essential elements of monetary arrangement in the United States from 1914 to 1948. It is addressed to those familiar with the general mechanics of the Federal Reserve System. It seeks the possibilities of monetary policy as an influence of economic stability. The author was for a long time the director of research and statistics for the Federal Reserve Board.

Dr. Goldenweiser defines money as "any generally acceptable means of payment." He approaches its handling by way of Bagehot's dictum:—"Money will not manage itself." He proceeds by way of the role of money in economics and that of monetary authorities. He discusses policies and mechanisms. He looks upon war as an inflationary influence. And he traces what has been done subsequently to check that influence.

One can get a deal of information out of this book—some of which some could use well. But, as the author says, there is always difficulty, often impossibility, in "knowing currently what becomes apparent in retrospect."

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Heavy Chemicals

Lead prices were reduced fractionally last week under competitive influences A decline in the tin market in London gave rise to expectations of a revision in the RFC price for tin in the domestic market. Zinc remained relatively quiet with a split quotation. Copper was firm at the late advance with consumer demand active at the higher price.

Prices of copper sulphate were advanced by some producers while others were still naming the former price range at the close of the week. The smaller copper based chemicals have responded to the advance in the metal and prices for copper chloride crystals, hydrate, nitrate and cyanide have been revised upward. Sales of tin crystals, tin oxide and other tin based chemicals have continued slow with consumers willing to await some definite signs of stabilization in the tin market. Recent revisions in the price of lead were not wide enough to affect the lead acetate or lead nitrate markets.

Chlorine continued the tightest chemical in the heavy tonnage listings. Supplies have not caught up with consuming demand in the eastern area and present indications point to a tight market over the remainder of the year. However, there were no important shortages in caustic soda, soda ash or any other heavy chemical. Sodium formate which was in scant supply early in the month as a result of plant trouble is being rapidly restored to a normal supply condition. Judging from trade reports, November sales compare favorably with those of October but the buying policy is conservative with little disposition to lift inventories above current working levels.

Paper production based on a percentage of six-day capacity was 100.1 percent for the week ending November 12, according to the American Pulp and Paper Association. This compared with 97.0 in the preceding week, and 100.8 for the corresponding week in 1948.

Production figures appearing below unless otherwise designated are from the Census of Manufactures, Department of Commerce.

Aluminum Sulphate — Both varieties have maintained the gain in sales noted early this Fall. Production has kept the supply situation comfortable and prices have remained steady. August exports totaled 1,522,469 pounds, including 440,000 pounds to the Philippine Republic and 335,125 pounds to Venezuela. Production in 1947 was 539,449 tons.

Ammoniac Sal—Dry battery manufacturers have continued to take white granular and the movement to this source has been satisfactory so far this month. Other consumers have shown no unusual interest with purchases confined mostly to small lots. Production figures for sal ammoniac in 1947 show 35,400 tons with shipments of 35,589 tons.

Ammonium Bicarbonate—Buying interest from the cracker bakeries has been well sustained and is expected to last throughout the month. Production is said to be leveling off requirements without leaving any surplus stocks.

Barium Chloride—Production in 1948 was placed at 14,244 tons by the Bureau of Mines. Output in the preceding year was 14,133 tons. Barium carbonate production last year was 43,227 tons, compared with 46,761 in 1947.

Bauxite—Advices from Port-of-Spain state that bauxite production in Surinam in 1948 totalled 2,120,000 long tons, an increase of 20 percent over the 1947 output and 28 percent higher than the peak wartime output. Production in Surinam exceeded that of neighboring British Guiana for the first time. Almost the entire output of the two producers was exported to the United States.

Chlorine—No easement from the tight supply position could be noted last week, in fact some producers stated the situation was tighter. Current demand for chemical paper and other industrial uses is running ahead of supplies in the eastern area. It was stated that market conditions in the southwest are just about the reverse from those in the local area but high freights have prevented shipments from that section. Production of chlorine gas in 1947 amounted to 1,443,219 tons.

Copper Carbonate—Light, fluffy or dark dense green copper carbonate, guaranteed 55 percent metallic copper is priced at $18.60 per 100 pounds in carlots and at $19.60 in less, f.o.b. southern works. Small lots ex-warehouse at nearby points are priced at $24.25 per 100 pounds. Light fluffy is packed in multi-wall paper bags 50 pounds net and dark dense in multi-wall paper bags 100 pounds net. Wooden barrels for export weigh 225 and 500 pounds net.

Copper Chloride—Crystal priced higher at 17¾c. per pound as a result of higher producing costs occasioned by the recent advance in the metal. Copper hydrate was also priced higher at 24¾c. and nitrate at 22¼c. Copper cyanide was advanced to 46½c. per pound. All prices are on a works basis except hydrate, which is delivered East of the Mississippi River.

Copper Sulphate—Prices have been revised upward by some producers but not by all. This has resulted in split quotations. The advances recorded extend from 25c. to $2.80 per 100 pounds, the greatest advance being recorded in the tri-basic variety. One of the producers has not gone along with the advance and is naming the former price level. The price action has stimulated interest in the market but has not resulted in any unusual increase in the volume of actual sales for agriculture. Industrial demand leaned toward expansion with the settlement of the steel strike, although it was expected that any sales expansion would be gradual. There were no new developments in the export trade. Production in 1947 was 87,807 tons.

Nickel Sulphate—Although one of the producers is under contract for December, there was no apparent shortage of stocks at other producing quarters. In most instances, platers have taken on stocks for current wants and total sales were not of unusual volume. Production in 1947 was placed at 8,879 tons.

Phosphorus Compounds—Production has kept a relatively even flow of these chemicals from works under a steady consuming demand. Latest figures just released by the Census of Manufactures show 1947 output of oxychloride at 7,301 tons and pentoxide at 8,780 tons. Total production of elemental white-yellow and red technical phosphorus was 85,940 tons.

Potash Caustic—Market conditions showed no unusual variations last week. Demand has continued chiefly for liquid and has been for soapmakers. Sales of the dry forms were spotty with shipments for chemical use confined largely to actual wants. Stocks comfortable and meeting requirements promptly.

Potassium Carbonate—Shipments of calcined and hydrated to the glass plants have been maintained at a fair level. The glass specialty manufacturers have taken the largest quantities. The liquor has not commanded much attention and sales to textile mills have involved no unusual quantities.

Potassium Chlorate—Match factories have taken on most of December's production and there have also been some orders for fireworks placed. Maintenance of demand has kept suppliers' stocks low and the market has retained a steady position. Production in 1947 is placed at 10,253 tons.

Salt—Based on reports from producers, representing a large proportion of the total evaporated and solar salt production in the continental United States, shipments during the months of August and September, 1949, were 236,271 tons and 229,273 tons respectively. Shipments from January through September amounted to 1,913,716 tons, including 1,548,815 tons of evaporated salt and 364,901 tons of solar salt.

Soda Ash—Shipments are said to be running slightly ahead of last month without disturbing the supply situation to any appreciable extent. Activity in the pulp, paper, glass and chemical industries appears to be holding its previous gain

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Copper chloride, crystals, ½c. per lb.
cyanide, 1½c. per lb.
hydrate, ½c. per lb.
nitrate, 1c. per lb.

Prices Reduced

Lead, ¼c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

General Chemicals

Last week	Prev. week	Last month	Last year
217.7	217.7	218.1	233.5

Acids

Last week	Prev. week	Last month	Last year
121.8	121.8	121.8	123.3

(For Current Prices see Page 9)

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and this condition is reflected in the demand for soda ash. Producers' stocks have continued to meet requirements with difficulty. Production of soda ash in 1947 was 4,524,668 tons.

Soda, Caustic—Contract shipments have continued to move at about the same rate as in October. The former pickup in consuming industries has been sustained and the movement of caustic soda to the rayon mills, soap factories and petroleum refineries is described as of fair seasonal dimensions. No shortage in either the dry or liquid forms was reported. Production by the electrolytic process in 1947 was 1,353,429 tons of liquid and by the lime-soda process—786,645 tons of liquid.

Sodium Chlorate—Consumers have purchased well into December, mostly for industrial use. There was some inquiry for weed-killing preparations with prospects favorable for an active movement after the turn of the year. April has usually been a big month for agricultural requirements. Production in 1947 was 20,459 tons.

Sodium Formate—Sales to the leather, chemical and plating industries have shown improvement over the past month. The supply situation was tight as a result of a temporary cutback in production but stocks have now assumed more normal dimensions. Prices have remained unchanged.

Tin Crystals—Buyers have continued reluctant to take on this chemical as well as any of the other tin based chemicals pending the stabilization of the American metal market. The sharp decline in London prices has given the impression in trade circles that RFC might revise figures more in line with London quotations.

Zinc Sulphate—No significant improvement could be noted in the consuming demand last week. The general market was described as quiet with list prices unchanged and the supply situation comfortable. Production of zinc sulphate in 1947 amounted to 14,347 tons.

Acids

Formic—Consuming demand has been sustained at a level to keep stocks from accumulating. The dye, tanning and laundry industries have all shown interest in the market. Prices have continued firm but unchanged.

Hydrofluoric — Market position steady with shipments maintaining a fair average for domestic use. Stocks continue adequate to meet requirements promptly at former price levels. Production in 1947 amounted to 27,933 tons.

Muriatic—Sales have shown gradual expansion so far this month but production has kept stocks at a level to meet industrial demand promptly. Output in 1947 amounted to 442,558 tons including 173,541 tons made from salt and acid, 87,112 from chlorine and 181,905 tons by-product and other sources.

Oxalic—Small lot sales have continued to feature the market without having any important diminishing influence on the available supply. Prices have been firmly sustained with stocks fully adequate to meet current requirements readily.

Sulphuric—Increased steel production has been reflected in a better inquiry

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from that industry. Some relaxation in demand for agriculture was noted as a result of the backing up of superphosphate stocks. From other sources demand was described as fair with consumers not inclined to build up inventories above current working levels. No shortage of stocks in this area. Total production in 1947 was 10,780,166 tons, total shipments were 6,824,756 tons.

Non-Ferrous Metals

Copper — Buying interest continued steady with sales of electrolytic at 18½c. per pound delivered Valley basis. The maintenance of demand has given the impression that total sales for November will compare favorably with those of the preceding month.

Copper Institute states that primary copper production from domestic sources rose to 62,790 tons in October, a high since June and comparing with 57,460 tons in September. The October output average of 2,025 tons daily compared with a ten-month 1949 average of 2,084 and a 1948 daily rate of 2,323. Secondary copper production totaled 6,271 tons in October against 7,410 in September, bringing the ten-month total to 113,401 tons against 130,410 tons for all of 1948. Refined copper production in the United States amounted to 86,882 tons, compared with 79,949 tons in September. For the first ten months of 1949 refined output was 868,914, compared with 1,233,697 for all of 1948.

Stocks of refined copper in the hands of producers and refiners of 164,464 tons on September 30, 1949, were 29,426 lower than a month earlier and 42,703 tons less than the 217,167 tons on hand on August 31, 1949, the post-war high.

In copper-producing countries outside of the United States, excluding Russia, October deliveries totaled 75,391 tons against 74,615 tons the month before; newly mined copper production increased to 104,195 from 99,860 and refined output to 85,150 from 82,946. Stocks increased 1,262 tons to a total of 151,443.

Lead—Priced lower at 12½c. per pound New York and 12.30c. at St. Louis. Consuming demand has not increased and according to reports, buying operations from the battery trade so far this month have not been up to expectations. Not much optimism was expressed for the December outlook, and the trade was not looking for much expansion in sales until after the turn of the year.

Quicksilver—There was an absence of spot offerings at the close of the week, although foreign arrivals were expected within a day or two. Suppliers were not inclined to change former prices and admitted that buying interest remained slow. The round lot price was given at $71 to $72 per flask with small lots ranging from $73 to $75 per flask, depending upon quantity and seller.

San Francisco—Stocks continue limited here and a quiet market exists with metal quoted at $73 per flask.

Silver—No new developments were uncovered to change the even course of this

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market. Demand and supply remained on even beam. Silver bullion closed at 73¼c. per ounce in the New York market.

Silver Bullion Price Range

	New York (Per ounce)	London (Per ounce)
High	Sept. 7, 1949—73¼c.	Sept. 20, 1949—64d.
Low	Jan. 1, 1949—70c.	Jan. 1, 1949—42½d.

Tin—This metal was bought and sold freely on the London metal market last week for the first time since 1941. Prices dropped sharply and recovered slightly at the close. The action of the London market had a restraining effect on purchases of tin in the American market and the trade expected some revision in the RFC figure.

Zinc—Market situation relatively quiet last week and it looked as though previous purchases for galvanizing use had satisfied requirements temporarily. A split quotation prevailed during the week, the range being 9¾c. to 10c. per pound for prime western, basis East St. Louis. It was stated that at intervals buyers showed more interest in special high grade than in prime western.

United Distillers Introduces New Permanent Type Antifreeze

United Distillers of America, Inc., New York, has commenced marketing a new glycol base permanent type antifreeze under the tradename "Saf-Tone." The product is said to be nonpoisonous, noninflammable, nonevaporating and antirust. It is being warehoused in various cities, in addition to factory locations at Yonkers, N. Y., and Gretna, La.

Metal & Thermit Appoints Five

The Metal & Thermit Corporation, New York, has appointed Bernard W. Weber manager of its detinning and electrode manufacturing plant at East Chicago, Ind.; W. S. Leinhardt technical assistant to the vice-president of production; William C. Cuntz district manager at Chicago; Orville T. Barnett district manager at Pittsburgh, and Robert T. Brown district manager at Newark, N. J.

Caustic Soda Chart Published by Solvay

A new caustic soda safety and instruction chart is now available from the Solvay Sales Division, Allied Chemical & Dye Corporation, for all persons and companies using or handling caustic soda. The chart contains suggestions for the protection of employees, precautions in unloading tankcars, how to handle frozen caustic in tankcars, and general first aid information. This is the third in a series of Solvay Precaution Charts, the first two covering chlorine and caustic potash. Any one or all of the charts are available without obligation through the division, 40 Rector street, New York 6, N. Y.

Armour Chemical Division Has New Cationic Emulsifier

The chemical division of Armour & Co., Chicago, has developed a new cationic emulsifier for chlordane and other agricultural insecticides. The product, tradenamed "Arquad 2C," is an oil soluble quaternary ammonium compound with excellent surface active properties, according to the maker. It is said to be effectively used in much lower concentrations than other commonly used emulsifiers and to possess the ability to act as a "surface oiling" agent bonding the oil phase to surfaces contacted by the emulsion.

Trade Briefs

Dr. Norris W. Vaux, secretary of the Department of Health of the State of Pennsylvania, has announced plans for a statewide program to determine the effects of polluted air on public health.

R. L. Watkins Company Division, Sterling Drug, Inc., is using two national network shows and a New York television program for a premium offer promoting "Dr. Lyon's Tooth Powder," "Dr. Lyon's Ammoniated Tooth Powder," and "Lyons Tooth Paste."

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Agricultural Chemicals

Lower prices have been named by some producers for 2,4-d acid in a competitive market and the amine and ester prices have also been lowered. Relaxation of demand from feeders was reflected in lower prices for dried blood and tankage here and at Chicago. Menhaden meal prices were unchanged although the market in the Baltimore area did not appear firm. A similar condition was noted in bone meal where feed demand has slowed down materially.

Buying interest in fertilizer materials has not improved. It is stated some cutback has taken place in superphosphate production with stocks backing up at plants. Mixers are reaching the limit of their storage capacity and shipments of ammonia nitrate, sulphate and potash have been slower and there has also been a reduction in the movement of phosphate rock. This condition is primarily the result of the reluctance of dealers, distributors and farmers to take on stocks at the present time.

Market Trends

Prices Advanced

None

Prices Reduced

2,4-d, 12c. per lb.
Dried blood, 50c. per unit of ammonia.
Tankage; 50c. per unit of ammonia.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
81.6	81.6	81.6	81.6

(For Current Prices see Page 9)

Nitrogenates

Ammoninum Nitrate—Some relaxation in domestic demand for shipments owing to slow movement for mixed fertilizer. Exports for August were 43,456 tons. Total exports from January 1 to August 31 amounted to 294,816 tons. Production of fertilizer grade in 1947 was 928,161 tons.

Ammonium Sulphate — Production of coke-oven sulphate is increasing and this with adequate stocks of converters' material has kept the supply position comfortable. Demand at present is not over active. August exports were 41,453 tons, compared with 7,730 tons for the same month in 1948. Total shipments for eight months ending August 31 amounted to 300,025 tons, against 84,655 and 42,876 for corresponding periods in 1948 and 1947 respectively. Production of converters' material in 1947 was 195,848 tons.

Cyanamide—Experienced an active demand for soil treatment at tobacco plantations and total shipments were of satisfactory dimensions. Like many other materials, demand for fertilizer use is not urgent at present. Prices were unchanged.

Dried Blood—Priced lower with buying interest slowed down considerably. Trading quiet with sellers at $8.25 per unit of ammonia here and in Chicago.

Fish Meal—Not much available, not much demand last week. The market was quoted at $175 per ton for 60 percent protein menhaden meal in the Baltimore area but did not look firm at this figure.

Nitrogenous Process Tankage—Production is heavily under contract at present and no prompt shipments are available. One producer is offering March, 1950, shipment only at $3.60 per unit of ammonia in bulk f.o.b. western works.

Sodium Nitrate—No unusual activity in this market. Demand has continued of routine character with stocks ample to meet the current extent of consuming inquiry.

Tankage—Lower prices were established last week under a further relaxation of feed demand. Both New York and Chicago named $8.25 per unit of ammonia.

Potashes

Demand for shipments has become more spotty as a result of the heavy stocks of mixed fertilizer being carried at mixing plants. Producers of potash have their output well under contract but are receiving more requests to defer deliveries. The reluctant policy of dealers, distributors and farmers to take on stocks of fertilizer at this time is having its reflection in potash as well as in other basic fertilizer chemicals.

Phosphates

Phosphate Rock—Curtailment in production of superphosphate is being reflected in a lighter demand for domestic shipments of phosphate rock. Government tenders for 250,000 tons equal to 78,000 tons of P_2O_5 for shipment to Japan attracted 13 bidders for parts of this total. The lowest price was $63.90 per ton for P_2O_5, the second lowest was $64.45, and the third $64.64, all delivered Japan in United States ships. These prices were for Florida material.

August exports of phosphate rock amounted to 197,295 tons and included 6,803 tons of Florida high grade rock, 155,313 tons Florida land pebble, and 35,179 tons of other rock. The August total in 1948 was 106,568 tons. Shipments for export from January 1 to August 31 totaled 879,636 tons, compared with 991,987 for the corresponding period in 1948.

Superphosphate — Consuming demand from dealers, mixers and farmers has shown no appreciable improvement so far this month and stocks are backing up at producers' plants. Reports have reached the trade that some plants have been forced to close down and others have cutback output because their storage facilities are full.

Export shipments in August amounted to 29,091 tons of normal, against 81,195 tons for the same month in 1948. Exports from January through August were 268,197 tons, compared with 196,979 for the corresponding period in 1948. Exports of triple in August were only 884 tons, against 1,522 in August, 1948. Total exports for the first eight months of this year were 10,761 tons, compared with 20,534 for the same time in 1948.

Los Angeles Fertilizer Market

Los Angeles.—The fertilizer market appeared firm this week; slight price fluctuations in organic materials are noted but inorganics held strong. Best movements have been in phosphates. Calls for and supplies of triple Superphosphate are coming in with quoted prices comparable to Florida material. For organics, trading has slackened somewhat in blood meal. From reports on European imports of good supplies and high quality bone meal, there could be a slight weakening in this market. As yet the supply of domestic bone meal is limited and quoted about $83 per ton f.o.b. Los Angeles which is higher than the imported material.

Ruling prices were:—Ammonia nitrate, $74.38 per ton for Canadian material, f.o.b. Los Angeles. Ammonia phosphate, $65.15 per ton for 16 20 grade, f.o.b. Los Angeles. $89.65 per ton for 11 48 grade, f.o.b. Los Angeles. Ammonia sulphate, $55 per ton bagged f.o.b. Los Angeles. Canadian material same in bags. $2.50 less for bulk. Blood meal, $7.25 per unit of ammonia at source. Bone meal, $70 per ton for steamed 1 30, f.o.b. Los Angeles. Fish meal, $150 per ton for 60 percent tuna, f.o.b. Los Angeles. $164.15 to $170.85 per ton for 67 percent sardine, f.o.b. San Francisco. $162.50 per ton for 65 percent sardine, f.o.b. Los Angeles. Nitrate of soda, $53 per ton in 100-pound bags, f.o.b. Los Angeles Harbor. $48 per ton for bulk. Potash muriate, 45½c. per unit, bulk, f.o.b. Trona basis. Potash sulphate, 95 to 98 percent K_2SO_4, 79c. per unit, f.o.b. Trona. Superphosphate, $21.20 per ton bulk, f.o.b. Los Angeles area. $2.50 extra for bags. Triple, $71.50 per ton, 42 percent a.p.a., f.o.b. Los Angeles. Tankage, dry rendered, ground, 50 percent protein, $6 per unit of ammonia at production plant, plus 10c. per unit of b.p.l.

Pesticides

Prices for 2-4-d were reduced by some producers last week in a competitive market. The carlot price was 43c. per pound, works, with freight equalized with recognized competitive points. Suppliers of 2,4-d amine 67 percent list 50-gallon drums at $3.68 per gallon, with a range upward to $3.93 for 5-gallon drums. For one-gallon cans, 4 to a case, $4.13 per gallon is named. Ester, 44 percent, ranges from $3.92 per gallon for 50-gallon drums up to $3.93 for 5-gallon drums. For one gallon, 4 cans to a case, $4.37 per gallon is named. These prices are f.o.b. factory or warehouse points, freight allowed on 10 gallons or more.

Sulphur

Bureau of Mines places mine shipments of native sulphur for August at 384,866 long tons, compared with 419,381 in July and 406,220 long tons in August, 1948. Total shipments from January through August, 1949, were 3,176,355 long tons, against 3,269,373 for the corresponding period last year. Apparent sales in August amounted to 383,117 long tons, compared with 414,278 in the preceding month and 435,646 long tons in August, 1948. Total sales from January 1 to August 31, 1949, were 3,269,570 long tons, against 3,284,403 for the same time a year ago.

Deposits of pyrites have been reported in both Kwangtung and Kwangsi Provinces, China. Reserves in Kwangtung are estimated at 150,000 metric tons. Pyrites are also known to exist in several places on Hainan Island. None of the deposits has been explored.

For Late Market Developments, See Page 4

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Petroleum Derivatives

The coming of peace to the steel industry produced little immediate change in the market for petroleum derivatives last week. Demand for aromatics was as strong as ever, and call for aliphatics continued to move up gradually. Prices were steady all around.

Most sellers of petroleum toluol and xylol reported that November production was completely sold out. Some sellers were even optimistic about December business, but, for the most part, it was felt that buying would drop off toward the middle of next month. Quotations were steady, notwithstanding the recent one-cent advance by one midwestern marketer.

Interest in high boilers and blends was also heavy during the period. However, with the resumption of coaltar production, the trade expected a dip in demand for petroleum products by mid-December. Prices were on a par with previous levels, continuing firm.

The paint trade, apparently unaffected by the shortage of steel, continued to call for good quantities of aliphatics during the week. Some observers believed that there might be a temporary lag in buying because of the in-between condition of the steel industry, but, at worst, they felt that this situation would be of short duration because of rapidly-mounting production. Stocks were plentiful, and prices were steady.

Butane was extremely tight, the major part of output going into Winter motor fuel operations. Propane was also said to be getting scarcer because of the Winter load. Storage space for both LPG's remained short of requirements.

Solvents and Diluents

Aromatic Solvents—Steel operations jumped to 54 percent of capacity during the past seven-day period, following virtual settlement of the industry-wide walkout. Although furnishing the initial impetus toward resumption of coaltar aromatics production, it was expected that makers of coaltar solvents would require several weeks more to get back to full-scale output. Meanwhile, demand for petroleum toluol and xylol continued strong, with most suppliers reporting a complete sell-out of November production. Some petroleum sellers looked for equally good business next month, but, for the most part, it was felt that some slackening of interest would develop by mid-December. Prices were undisturbed, despite the recent advance of 1c. per gallon by one midwestern marketer.

One maker of aliphatic-aromatic blends reported that November sales were running 15-20 percent ahead of October levels, the company's record month. However, with the starting up of coaltar production, it was felt that there would be some tapering off in demand toward the end of this month, and that by mid-December there would be a visible curtailment in buying activity. Other makers of blends along with producers of higher boilers continued to do high-volume business during the week, but they too looked for a cutback in demand by the middle of next month. Listings were maintained all along the line.

Cleaners' Naphtha—Consuming interest remained at reasonably good levels during the past seven days. Stocks were unchanged, continuing ample in all areas. Prices were similarly without variance. Apart from Philadelphia where, because of a purely local situation, the price for tankcars was 13c. per gallon, East Coast marketers quoted 14c. per gallon, tanks. Group 3 sellers named 10⅞c. per gallon for tankcars.

Lacquer Diluent—There was no curtailment in operations of lacquer manufacturers last week, and demand for this aliphatic material continued slightly on the upgrade. Some marketers pointed out that there might be a temporary dip in buying soon, due to the current shortage of steel, but, at worst, this situation would be of short duration because of rapidly mounting steel production. Supplies of this aliphatic were plentiful. Prices were steady, continuing at 16c. per gallon, tanks, East Coast, and at 11⅛c. to 12⅛c. for tankcars in group 3.

Mineral Spirits—The paint industry continued to call for good quantities of this solvent last week. Business, although good, was short of peak levels. The supply position remained excellent, offerings continuing in ready availability. Quotations were firm. Philadelphia sellers quoted 13c. per gallon for tankcars. Other East Coast marketers were 1c. higher, or 14c. per gallon for tanks. Group 3 quotations ranged from 9⅞c. to 10⅜c. per gallon, tankcars.

Rubber Solvents—The price structure remained on a par with that of previous weeks. East Coast listings were uniform at 15c. per gallon for tankcars. In group 3, the market ranged from 10⅜c. to 11⅜c. per gallon, tanks. Demand was at reasonably good levels. Supplies were excellent.

Stoddard Solvent — Prices remained steady during the period under review. Philadelphia marketers, still under local influences, named 13c. per gallon for tankcars. Other East Coast suppliers were at 14c. per gallon, tanks. In group 3, the market ranged from 10⅜c. to 10⅞c. per gallon for tankcars. Buying interest was up a little, the paint trade apparently still unaffected by the shortage of steel. Offerings were readily available in all areas.

V. M. & P. Naphtha—Supplies were on a par with previous levels, continuing ample all around. Business was slightly improved, though sales were still well short of peak figures. Prices were maintained. East Coast marketers quoted 15c. per gallon for tankcars. Group 3 producers named 10⅞c. to 11⅜c. per gallon, tanks.

Lighter Fractions

Heptane—The price structure remained unchanged during the past seven-day period. Consuming inquiry continued on a par with previous levels, ranging from fair to moderate. Stocks were ample in all areas.

Hexane—There was no change in the market position of this lighter fraction during the week. Material continued in plentiful supply. Demand was fair. Prices were maintained everywhere in the market.

LPG's—Butane was reported in very tight supply last week, with the bulk of material going into Winter motor fuel production. There were few, if any, offerings, even on spot. Prices were without variance, continuing at 4c. per gallon, tankcars, group 3. Propane was also said to be getting scarcer because of the Winter load. Storage space was short for both liquefied petroleum gases. Propane was quotationally without feature, holding at 2½c. per gallon, tanks, group 3.

Pentane—Stocks remained in plentiful availability in last week's market. Demand was unchanged from previous levels, continuing fair. The price structure was similarly without variance.

Miscellaneous

Crude Oil—The American Petroleum Institute reported daily average crude-oil production (including lease condensate) for the week ended November 5 at 5,078,000 barrels, or 3,000 barrels above the comparable total of the preceding week. Daily average crude runs to stills of 5,314,000 barrels were 195,000 barrels below the level of the preceding week. Runs of foreign crude amounted to 494,000 barrels daily, compared with 434,000 barrels in the preceding week.

Crude-oil production in Saudi Arabia during October was reported at 15,092,814 barrels, or an average of 486,865 barrels daily. Crude processed at the Ras Tanura refinery amounted to 3,103,050 barrels, or an average of 100,098,000 barrels per day. Crude-oil production for the first

Market Trends

Prices Advanced
None

Prices Reduced
None

(For Current Prices see Page 9)

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended November 5 totaled 254,121,000 barrels, according to the Bureau of Mines. Compared with the total of 252,069,000 barrels for the preceding week, this represents an increase of 2,052,000 barrels, comprising an increase of 1,646,000 barrels in stocks of domestic crude and an increase of 406,000 barrels in stocks of foreign crude.

For Late Market Developments, See Page 4

ten months of this year amounted to 146,040,061 barrels, or an average of 480,395 barrels daily. Crude runs in the Ras Tanura refinery for the same period were 39,566,234 barrels, or an average of 130,152 barrels per day.

Los Angeles Petroleum Market

The market on solvents and diluents remains unchanged, continuing firm and active with no expected change in prices. Cleaning solvent quoted 15½c. to 19½c. per gallon, tankwagon, ex-tax, f.o.b. Los Angeles basin area. Lacquer diluent quoted from 16½c. to 20½c. per gallon, same basis, and stoddard solvent at 15.7c. to 19.5c. per gallon, same basis.

Prices and market conditions for lighter fractions are unchanged this week, with propane and butane both posted at 7.3c. per gallon, tankcar, f.o.b. Los Angeles basin area.

Steady demand for paraffin wax renders the market firm, and supplies of all waxes continue ample here on the Coast. Prices quoted as follows:—140-147 ASTM, carload, loose slabs, f.o.b. shipper's refinery, San Francisco, 6.95c. per pound; 146-148 ASTM, same basis, 7.15c. per pound, and 157-162 ASTM, same basis, 7.6c. per pound. Tankcar prices in the order named above are 6.6c., 6.8c. and 7.25c. per pound.

Ethyl Awards Eight University Fellowships

Ethyl Corporation, New York, has awarded seven graduate fellowships and one post-doctorate research fellowship to American educational institutions. The graduate awards have been awarded for the 1949-50 year to:—

Robert P. Smith, chemistry division, California Institute of Technology; Lloyd G. Blosser, department of chemistry, University of Illinois; Wendell E. Bergren, college of engineering, University of Oklahoma; Patrick L. McGeer, department of chemistry, Princeton University; William H. Nichols jr., college of petroleum sciences and engineering, University of Tulsa; Thomas H. Coffield, department of chemistry, Wayne University, and Gordon Millar, college of engineering, University of Wisconsin. The post-doctorate fellowship was awarded to Dr. Ralph Haswell, college of medicine, University of Cincinnati, for research in the field of industrial medicine.

Gulf Completes Expansion At Toledo and Cincinnati

The Gulf Oil Corporation, Pittsburgh, has completed expansion programs at its refineries in Toledo and Cincinnati. As a result, the production capacity of the Toledo plant has been increased from 1,008,000 gallons to 1,680,000 gallons per day, and that of the Cincinnati plant from 1,000,000 gallons to 1,168,000 gallons per day.

At each refinery, sixteen new refining structures, buildings and plant extensions have been erected, in addition to increased storage capacity. Facilities for the manufacture and storage of propane have been installed at both locations.

Los Nietos Elects Taylor New President

Los Nietos Company, a wholly owned subsidiary of the Union Oil Company of California, has elected Reese H. Taylor president. Also named were: executive vice-president, W. L. Stewart jr.; vice-presidents, A. C. Rubel and A. C. Stewart; vice-president and treasurer, H. W. Sanders; vice-president and general counsel, L. A. Gibbons; secretary, R. F. Niven; comptroller, Irving Hancock, and assistant comptrollers, W. H. Steels and H. A. Lapham.

Republic Petroleum Elects Myers President

Republic Petroleum Company has elected H. H. Myers president, following his acquisition of controlling interest in the outstanding capital stock. Named to the board of directors were John E. Kilgore, Lanham Corley, J. R. Howell jr., J. E. Cochran jr., and Mr. Myers.

Trade Briefs

R. L. Minckler, president of the General Petroleum Corporation, has been reelected a member of the board of directors of the National Industrial Conference Board.

Dr. Joseph E. Pogue, head of the petroleum department of the Chase National Bank, New York, will relinquish his position as a vice-president at the end of the year, but will continue to serve in a consulting and advisory capacity.

Kenneth E. Kingman, Los Angeles refinery manager for the Union Oil Company of California, has been named manager of manufacturing. His former position will be filled by Elmer B. Palmer, assistant refinery manager.

Mark Gardner has been elected president of International Derrick & Equipment Company, oil well equipment, Cleveland, to succeed Oscar M. Havekotte, who resigned recently. Mr. Gardner will make his headquarters in Dallas, where the company's headquarters are being moved.

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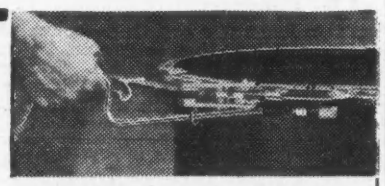

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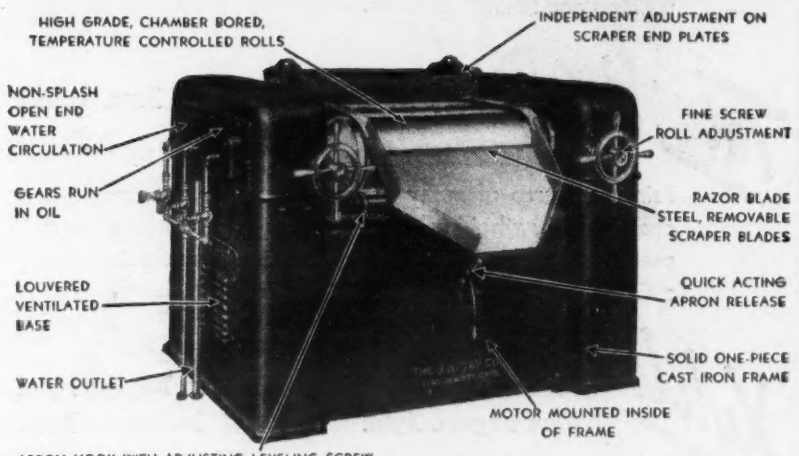
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Coaltar Chemicals

The supply situation was improving in the market for coaltar chemicals last week. Most of the steel companies had made their peace with the union and were already producing at a better rate than had been anticipated. With others expected to sign soon, the picture became much brighter during the week. The American Iron and Steel Institute reported that companies having 94 percent of the capacity of the industry were scheduled to produce at 54 percent of their potential last week, as compared to 21 percent during the previous week.

While this was a considerable improvement, it was reported that coaltar chemicals output would probably not be back to normal for several weeks. Part of the delay would be caused by some companies in holding out on signing with the union and part by the normal difficulties in getting facilities working again.

The coal picture was still not entirely bright. The miners had merely declared a truce until the end of the month, with no assurance that they would go on working after that. There was not sufficient time for the steel mills to lay in a substantial backlog of coal. However, the attitude of the government last week indicated that Washington might step into the picture and that was taken as good news by the consumers of coal.

Demand was at good levels for both basics and intermediates. The latter were in a generally better supply position than the basics. Orders were said to be of good size recently and in general demand was reported to be better than it was before the strikes began.

Basic Products

Benzol—An almost industry-wide settlement of the steel strike had by last week's end done much to pick up the production of this material. Reports from the Pittsburgh district indicated that the steel producers were making a speedier recovery than had been expected at first. Most of the companies had come to terms with the union and those that were still holding out were expected to reach agreements shortly. These developments came as good news to producers and consumers of benzol alike. Before the strike began the material had been in a tight supply position and the work tie-up naturally caused the supply to become an extremely difficult problem. Demand continued high and there was little, if anything, that producers could do but try to allocate as much as possible to their contract customers. Prices of the item held at their former levels during the past week and there were no indications that there were any revisions in prospect for the immediate future.

The return to work of the soft coal miners was also of great help to the industry, for it meant a returning supply of fuel, even if there was no guarantee that the truce with the miners would last beyond November 30. By the end of the week, however, the government seemed determined to avert another walkout. That attitude had its encouraging value to the coaltar industry, for what producers needed greatly was an assurance that they might expect things to return to normal before long. Otherwise, it was thought that they might do what they could to hold on to their supplies of coal and that would naturally mean a lessened production.

The item remained tight last week and even if additional steel companies should get into line and a coal tie-up be averted, it was expected that the material would continue tight for some time. The general demand was as heavy as it had been before the strikes began and there was no reason to expect any immediate falling off.

Coaltar—Some easing was noted in the supply of this material during the past week. There was still not enough improvement to make the item freely available, however, and with the outlook what it was, producers felt that it might be another two weeks or so before the situation could get back to normal. That was presuming that there would be a complete peace in the steel industry and an assurance that there would be no further walkouts of the coal miners. The easing of the steel strike had put most producers back at work, although not up to their pre-strike capacity, since it was taking time to return to full production. There was an added note of optimism in the picture last week when it was revealed that the steel mills were making a faster recovery from the strike than had been expected. Demand, meanwhile, was continuing at a strong rate and the price listings were holding at their previously noted levels, with no suggestions that they might be changed in the near future.

The truce in the coal walkout meant that more fuel was again coming to the steel mills and was proving of great help in boosting the supply. However, the industry had some doubts as to how long the shaky peace would last. By the end of the week, the government seemed inclined to put a halt to further work stoppages and this was received as encouraging news by the industry, for in some quarters it was said that without reasonable assurances of a continuing peace in the coal industry, some producers might run at only a part of their possible capacity in an effort to save coal. Although the miners were to stay at work until the end of the month, it was said that this did not give the steel mills sufficient time to lay away a backlog of coal that would be sufficient to see them through another possible walkout.

Creosote—The market for this material was not greatly changed during the past week. There was less domestic production than there had been prior to the strikes in steel and coal, but with an almost universal peace in steel and a truce in coal until at least the end of the month, the output was better than it had been The imported material continued to arrive in this country in good amounts, with the result that there was no serious pinch for supplies. Demand was not at particularly high levels, although there were still fairly good routine requests for the item being received. Just what the future market would be was somewhat difficult to say. Some sources said that they felt there would be an upturn in business before long while others were of the opinion that things would go along about as they had been doing in the recent past. Prices were still at their previously established levels and there was no suggestion that there might be any revisions in the near future.

The bulk of the foreign material was still coming in from England, although recently there had been some imports from Germany, as a result of that country beginning to get back on its feet, industrially. There were some reports that the Japanese are getting back into production, but at this time sources in this country thought it was a bit too early to tell if they were producing at a rate sufficient to make it possible for them to export any material. Most of the Japanese production was expected to come from the steel industry in that country, but there was also some that was expected from the gas plants.

Cresol—This item was in an improved position last week as far as the supply was concerned. A virtual end of the steel walkout meant that the mills were getting back into production, and as of last week were up to a level that had not been anticipated earlier. They were still not producing at capacity and were not expected to for some weeks yet because of the technical difficulties in starting up again. Still, they had made a good start

Market Trends

Prices Advanced
None

Prices Reduced
None

Comparative Price Indexes
(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
110.1	110.1	110.1	156.9

(*For Current Prices see Page 9*)

Coke By-Products

Estimates of by-product cokeoven operations in the week ended November 5 indicate the following output of by-products from that source:—

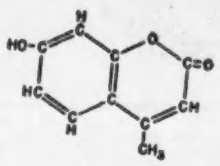
Ammonia liquid NH_3	lbs.	94,802
Ammonia sulphate	lbs.	2,454,903
Benzol	gals.	309,355
Coaltar	gals.	1,147,608
Creosote oil	gals.	63,866
Naphthalene, crude	lbs.	151,683
Phenol	lbs.	17,962
Toluol	gals.	61,871
Xylol	gals.	13,970

For Late Market Developments, See Page 4

KOPPERS beta-Methyl Umbelliferone

increases whiteness and brightness of many products

BMU



Koppers beta-Methyl Umbelliferone (BMU) exhibits a blue fluorescence which makes it extremely useful as a whitening, screening or masking agent. Because these effects result from the emission rather than the absorption of light, the whitening or brightening effects are much more pronounced than with usual bluing agents.

SOAP PRODUCTS— Use of BMU overcomes slight yellow discoloration of soap, gives desirable blue fluorescence to the bubbles, and lends a whitening effect to washed fabrics.

SUNTAN PREPARATIONS— Koppers BMU has been recommended for use as a screening agent against ultraviolet light in suntan lotions, oils, creams, and similar protective products.

TEXTILES— Koppers BMU has been used in finishing textiles to improve the whiteness of new white goods or the brightness of certain colored fabrics.

PAPER AND PAPER COATING COMPOSITIONS— The use of BMU is suggested as a whitening agent for paper products and certain coating compositions.

OPTICAL SCREENS AND FILTERS— Koppers BMU has been used in the preparation of film for ultraviolet light filters.

FLUORESCENT INDICATORS AND TRACERS— BMU is useful as an indicator in volumetric analysis, and as a marking agent for tracing materials and detecting adulteration.

DYESTUFFS— BMU is suggested as an intermediate for the production of specialty dyestuffs.

PHARMACEUTICALS— The methyl ether of BMU has activity as a hemostatic agent and may find medicinal uses in shortening blood clotting time.

TECHNICAL INFORMATION

Empirical Formula ..... $C_{10}H_8O_3$
Form ..... White to light yellow solid
Melting Point ..... 189.0°C.

Solubility

Solvent	Temperature	Solubility*
Water	25° C.	0.017
Sodium Carbonate (aq. 5% soln.)	25° C.	2.5
Sodium Bicarbonate (aq. 5% soln.)	25° C.	0.02
Sodium Phosphate (aq. 6.5% soln.)	25° C.	2.5
Borax (aq. 3.3% soln.)	25° C.	0.05
Ethanol	80° C.	20
	25° C.	3.7
Benzene	25° C.	0.027
White Mineral Oil	25° C.	0.001

*Per cent by weight, or by parts of BMU per 100 parts of solution.

KOPPERS

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and the general supply picture was much brighter. Demand continued at good levels and prices held firm with no suggestions that there would be any revisions in the immediate future.

The coal truce was, during the week, something of a question mark, but with the government indicating that it would take steps to prevent another walkout, producers were beginning to breathe a bit easier.

Cresylic Acid—This material remained in a pretty tight supply position during the past week, although there was some improvement as a result of the major portion of the steel companies taking up production again. Their output was not up to what it was before the strike but reports from the Pittsburgh area indicated that the degree of recovery was greater than had been anticipated. Imported material continued to arrive in good quantity and was of some help in relieving the domestic situation, but there was not enough of the foreign product to make the market completely free. During the week it was reported that there were 1,140 drums of the item that came into New York from abroad. Pricewise, there were no changes and there were no indications that there would be any in the immediate future.

With the government apparently ready to take a firm hand in the coal picture, the industry was beginning to feel more optimistic, for without any help from the government producers had no guarantee of fuel beyond November 30 and before that date they did not have sufficient time to lay away sufficient supplies to last them for any extended period. should the fuel be needed.

Naphthalene — The supply of the refined material was reported to be easing a bit last week as a result of an almost universal labor peace in the steel industry and a more encouraging condition in coal. The crude was also somewhat better than it had been. This did not mean that either was as yet entirely free as to availability, but things were looking up. The bulk of the crude was still going into the production of phthalic anhydride, for which there was a continuing heavy demand. Pricewise, there were no changes reported during the week and there were no definite indications that there would be any revisions in the near future.

Phenol—With benzol again becoming available in larger amounts, the supply of the synthetic material was becoming a bit easier during the past week. There was still a general tightness, however, but not so bad as it was a few weeks ago, when some sources reported that they were just about out of the item. By last week contract customers could generally be taken care of, although new customers might have some difficulty in finding as much of the material as they wanted when they wanted it.

As far as the steel strike was concerned, producers were pretty well able to put that worry away, for most of the companies had come to terms with the union and the indications were that the others would likely follow suit before long. Recovery of the mills was said to be advancing rapidly, with most of them producing at a higher rate than had been anticipated earlier.

Hopes were that the truce in the coal strike would evolve into something more lasting, and as of last week with the government indicating that it was ready to take a hand to preserve peace in that industry, the producers of coaltar chemicals were more optimistic about the future.

Pyridin—Both the pharmaceutical and denaturing material were in a fairly comfortable position last week in contrast to most other items in the coaltar chemicals market. When the strikes began in both steel and coal it was thought that the pharmaceutical would tighten considerably, but it did not to any great extent. It was said that, following shortages earlier in the year, many users had laid away large inventories of the European product during the Summer months and were working them off when the strikes curtailed the domestic supply. It was reported that there might be a few tight spots here and there as far as the denaturing was concerned, but in general the situation was not too bad. Some were of the opinion that when the strike situation was completely cleared up the supply of both grades would be entirely comfortable. Pricewise, there were no changes reported during the week and there were no definite indications that any revisions were in prospect for the immediate future.

Toluol—The pipelines ot supply were beginning to fill up last week, but there was still a long way to go before this item would again be freely available. Even

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before the strikes started it was in a tight position as far as the supply was concerned. The end of the steel strike meant that the mills could again start turning it out but they were still not on a 100 percent production basis. All the steel companies still had not signed up with the union and those that had were running into the normal technical delays that were natural to starting up again after a layoff. Still, production was going ahead at a rate that was higher than had been anticipated and the industry found a good deal of encouragement in this. Demand was strong and all the indications were that it would continue that way. Prices held to their previously established levels during the week and there were no suggestions of any contemplated revisions in the near future.

The coal truce was still something of a problem. Since it was only a truce, producers were a bit cautious about consuming coal and it was said in some quarters that unless they had assurance of a continuing supply they might run at only part of their capacity in an effort to conserve fuel. The government's attitude during the week was of some encouragement, for it indicated that Washington might take a firm hand in the situation.

Xylol—This item, one of the tightest in the market for coaltar chemicals during the strikes, continued to be hard to obtain during the past week. It had eased somewhat but there was still not nearly enough of it to go around. It was reported that even with the best of luck it would still take several weeks to get the output back to normal. The demand continued just as strong as it had been and there was no reason to believe that there would be any tapering off of demand in the near future. Prices held to their previous levels during the period under review and those close to the market could see no immediate revisions in prospect.

Since almost all the steel mills were back on peaceful terms with the union and others had indicated that they were about to come into the fold, the picture was brighter on that front, but the coal truce was one that the industry was still watching.

Intermediates

Acid, Anthranilic—Demand was routine last week and the supply adequate to meet it. Pricewise, the market was without particular feature.

Acid, Orthocresotinic—Stocks of this item continued at good levels last week, but there was nothing exceptional about the demand. Prices were unchanged.

Phthalic Anhydride—The supply of this item was still tight despite the easing of the steel and coal tie-ups. Demand was high and even with a better output following the improved labor conditions, producers were still finding it extremely difficult to satisfy the market. It was difficult to determine how much of the demand was for immediate use and how much for inventories. Theories were advanced on both sides. Some thought the demand would continue and others thought it might fall off if it was being brought about by a desire to build up stocks in the hands of consumers. Prices held at previous levels and there seemed to be no indications of any immediate revisions.

Pennsalt Merges Household Products, B-K Departments

Pennsylvania Salt Manufacturing Company, Philadelphia, has merged its B-K and household products departments into a single unit. S. H. Crounse, formerly manager of sales of the B-K department is manager of sales of the combined group, and Harold A. Fletcher, formerly manager of sales of the household products department, is retail sales promotion manager.

In the new department, which became operative on November 1 as the B-K and household products department, B-K salesmen are devoting full time to the dairy trade, while household salesmen are concentrating on serving jobbers and other wholesale and retail outlets.

Pittsburgh ASTM Plans Meeting on November 29

The Pittsburgh district of the American Society for Testing Materials will meet at the Mellon Institute auditorium on November 29. The featured speaker will be Dr. Alexander Silverman, head of the department of chemistry at the University of Pittsburgh, who will discuss "Quality and Utility in Modern Glass."

Emulsol Corp. Names Riedeburg Technical Sales Representative

The Emulsol Corporation, Chicago, has appointed Theodore Riedeburg & Associates, New York, technical sales representative in the agricultural, industrial and sanitation chemical fields in New York and upper New Jersey. The company has also added Miss Aurelia C. Bernard to its food technology department and has assigned her to its frozen and dried egg products research and development program.

Morse Describes Drum Truck

Morse Manufacturing Company, Syracuse, N. Y., has issued a bulletin which describes and illustrates its "ROCK-A-DRUM" vertical drum truck with which one man can place in position heavy drum loads of paints, lacquers, chemicals, emulsions and all types of liquids and semi-liquids. The truck will place the drum fifteen inches above the floor for side drainage.

Arkell & Smiths Marks Ninetieth Anniversary

Arkell & Smiths, paper bag manufacturer, Canajoharie, N. Y., recently celebrated its ninetieth anniversary with an open house at its plants in Canajoharie. On display during the event were James Arkell's original bag tubing and bottoming models and patents, which have been the basis for the design of all bag making machines.

Another feature was a packaging exhibit, which featured animated demonstrations of the effectiveness of the "Sta-Stak" creped multiwall bag and the new "Plasto-Pak" polyethylene kraft lined bag for moistureproof protection for hydroscopic materials.

Carwin Engages Two

The Carwin Company, chemical manufacturer, North Haven, Conn., has added Alexander B. Neill, jr., and Robert V. Smith to its staff. Mr. Neill will receive a PhD. degree in organic chemistry from Lehigh University and Mr. Smith a similar degree from Michigan State University at Fall commencement exercises.

Trade Briefs

American Petroleum Institute has published "Petroleum Marketing" the fourth in its series of charts prepared for the oil industry, its employees and laymen interested in oil operations.

Hunter Spring Company, Lansdale, Pa., has published a technical bulletin, entitled "Negator Clamps for Industry," which describes a new and unique industrial clamp.

Standard Safety Equipment Company has developed a fluorescent tube disposal unit, which it claims will restrict the hazards of fluorescent tube handling. Complete details may be obtained from the company at 232 West Ontario street, Chicago.

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Textile and Leather Chemicals

Consumers of textile and leather chemicals continued to limit purchases for immediate and prompt delivery. While most of the buying was for small to moderate quantities, total sales aggregated a fairly good volume last week. Prices remained steady for most materials, except egg albumen, which was easier under increased stocks. Price index declined 297.9, compared with 366.0 at this time last year.

Demand for chemicals was spotty, chiefly for immediate needs. Bichromates were in request for actual requirements at unchanged quotations.

Demand for sizing materials was confined to moderate lots for prompt delivery. Potato starch remained steady and in limited supply. Production in Maine started on a small scale last week but was expected to reach a good volume by the first of next month. Idaho production continued to lag owing to the difficulty of getting potatoes. Demand for tapioca flour was restricted to supplies on the spot, while interest in replacements from Brazil and Java continued inactive. Freer offers from Brazil and slow demand has eased the market for shipments. Sago flour was quiet, though prices were well held with the higher cost of replacements.

Recent reduction in prices of quebracho, wattle bark and extract and cutch brought out an improved inquiry for replacements and a moderate volume of business was reported booked for early next year's requirements. Interest in other tanning materials was still spotty, though quotations for shipment were unchanged and steady.

Market Trends

Prices Advanced

None

Prices Reduced

Egg albumen, edible, 3c. per lb. tech., 3c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
297.9	300.4	305.1	366.0

(For Current Prices see Page 9)

Chemicals

Bichromates—Consumers absorbed fair sized quantities for prompt requirements. Market remained steady. Prices were unchanged for delivery during the balance of the year. Recently announced new price schedule goes into effect January 1. Sodium bichromate and chromate are unchanged, while potassium bichromate will be about ½c. higher. Prices for next year delivery also will be determined by the quantity purchased for shipment to one destination, instead of the quantity purchased annually, as heretofore. Total shipments of sodium bichromate and chromate in 1947 were indicated at 76,414 short tons, valued at $11,283,000, according to the Census Bureau. Total production was indicated at 90,285 short tons.

Sulphonated Oils—Business was restricted to actual needs. Prices were without change and well held for all sulphonated grades.

Sizing Materials

Blood Albumin—Consuming inquiry was limited to immediate needs. Prices of albumin and dried soluble blood were well held at former levels.

Corn Dextrin—A good volume of business was reported for immediate delivery. Quotations for all grades were unchanged and guaranteed against advance up to November 30.

Corn Starch—Consumers continued to take good sized quantities for immediate delivery. Market was steady and quotations were guaranteed against advance until November 30. Visible corn supply continued to increase and was lifted 5,887,000 bushels to 31,247,000 bushels for the week ended November 12, compared with 15,908,000 bushels for the same time last year, according to the Chicago Board of Trade. The government report forecast corn crop of 3,358,000,000 bushels as of November 1, a decline of 119,000,000 bushels from the previous month. This is 8 percent below last year's record crop of 3,651,000,000 bushels but 20 percent above average. The yield per acre was indicated at 39.1 bushels, although 1.4 bushels below the October forecast, but still the second highest of record, exceeded only by last year's record yield of 42.7 bushels. The above estimates include corn for all purposes—grain, silage, forage, hogging and grazing. Corn for grain is estimated at 3,080,000,000 bushels, compared with 3,365,000,000 bushels in 1948.

Egg Albumen—This market continued easy and quotations dropped 3c. per pound. Business was reported fair for immediate delivery. Edible flake offers were freer and ranged from $2 to $2.05 per pound, as to quantity. Technical was reduced to 90c. to 95c. per pound, as to quantity, while off grade material was available at 5c. less. A record lay and the largest October egg production of all time was reported by the Bureau of Agricultural Economics. Farm flocks laid 3,749,000,000 eggs in October—7 percent more than October last year and 35 percent above the 1938-47 average. Total egg production during the first 10 months of this year was 47,886,000,000, about the same as last year, but 11 percent above average.

Egg Yolk—Owing to the scarcity of domestic yolk, trading was confined to Chinese of late. Stocks of imported yolk were not liberal, but adequate to meet current demand. Sales were made on the basis of $1.23 to $1.25 per pound, spot delivery, duty paid, depending upon quantity. Domestic yolk remained nominal at $1.40 per pound.

Potato Starch—Buying interest was reported limited to immediate requirements. Conditions in the market were unchanged and steady. Production in Maine has begun on a limited scale, but was expected to reach good volume by the first of next month. Carlots were held at 6.30c. per pound, New York delivery for spot delivery, while futures were quoted 6.07c., same basis, and 7¼c. per pound, ex warehouse. Reports from Idaho stated production was still light. Dutch starch was available at 6.35c. per pound, ex dock for shipment and 6¾c. ex warehouse.

Sago Flour—Business was quiet. Market was steady, with the higher cost of replacements. Shipments were quoted at 5c. per pound, ex dock, and spot stocks at 5½c., ex warehouse.

Tapioca Flour—Moderate demand was noted for low and medium grades. Spot market was unchanged though offers for shipment from Brazil and Java were more liberal. High grades were named at 9c. to 9½c. per pound, as to quantity, on the spot; medium, 8c. to 8½c., and low, 7c. to 7¼c. Low grade for industrial use for November shipment from Java was quoted at 4c. per pound, ex dock, tonnage lots. Medium grades ranged up to 4¾c., same basis.

Tanning Materials

Chestnut Extract—Business was restricted to immediate needs. Quotations were unchanged and fairly steady. Shipments of liquid and solid chestnut extract in 1947 totaled 61,502,000 tan units (tan unit is equal to 1 pound 100 percent tannin), valued at $9,336,000, and the total production for all purposes was 59,731,000 tan units, according to the Bureau of Census.

Cutch—Announcement of lower price for December shipment brought out improved consuming inquiry for early next year replacements. December forward shipment was quoted at 7c. per pound, ex dock, duty extra.

Mangrove Bark—This market was quiet, but shipments from South America were maintained at prevailing levels. African bark was not offered for shipment. Arrivals of 300 bags of bark were noted at New York from Tumaco last week.

Quebracho Extract—Buying interest was more active for early next year delivery. Trading also was improved for prompt shipment. Prices were unchanged and well held. Bids were requested by ECA by November 17 for $35,000 worth of cold soluble quebracho extract and $65,000 of hot soluble for shipment to Austria. Prices were asked per ton, f.o.b. Buenos Aires basis, with a discount allowed for quantity. Delivery dates were to be included in the offers. Total shipments of liquid and solid quebracho extract in 1947 were indicated at 13,148,000 tan units (tan unit is equal to 1 pound 100 percent tannin), valued at $2,160,000, and the production for all purposes was 14,097,000 tan units, according to the Bureau of Census. Imports at New York totaled 7,275 bags last week.

Wattle—Consuming inquiry has improved for bark and extract replacements. The market was steady at prevailing levels. Offers were restricted to December forward shipment and moderate trading took place at current quotations. Arrivals totaled 1,120 bales of bark at New York last week.

For Late Market Developments, See Page 4

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Drugs and Fine Chemicals

A marked price stability characterized this market last week, with the price movements confined to a 10 cent per pound reduction in menthol and agar, and a 4 cent per pound advance in cocoa butter. The menthol decline was simply a continuing weakness in the market in line with performance over recent weeks, and the agar decline was the result of dealers attempting to unload high cost inventories prior to the arrival of shipments from Japan made after the government lifting of floor prices. The index declined 0.3 point becoming 255.1.

Glycerin supplies were a bit tighter, but it could be said that no one was going without needed material. Demand for glycerin was maintaining a high level. Synthetic detergent production this year cut heavily into the soap market resulting in less natural glycerin output, with the result that despite much heavier imports of foreign crude a mild shortage existed. Under these circumstances the synthetic glycerin output was welcome and most quarters felt that it meant the difference between a mild shortage and a real one.

Formaldehyde continued to move in good volume. With the settlement of the steel strike making benzol available again, the threat of a phenol shortage was lifted from the plastics industry and the prospects for continued good formaldehyde consumption were felt to be good.

Ester and ketone solvents were in a market of sustained good demand, and any delayed reaction of the coal and steel strikes were felt likely to either be diverted or at least mild. A firm price tone characterized the organic solvents market all across the board, and current price structures were felt likely to hold for the balance of the year.

Atropine salts and ephedrine materials were expected to soon show a marked increased consumption in the distributive channels. The ethyleneglycol antifreeze canning season passed with no apparent lull in demand for bulk quantities of this material, due in part to a ten weeks strike in the plants of a major producer, which is now settled and may result in relieving some of the pressure of demand on other producers.

Acid, Salicylic — The supply of both technical and USP material was still reported in good shape, with no significant pinch having developed from the recent strikes in the steel industry which curtailed benzol production. With the resumption of steel operations, there was a good possibility that any delayed reaction might be averted. Prices were unchanged from levels prevailing over recent months, and no change was expected in the immediate future.

Acid, Sebacic — Purified sebacic acid was still firmly quoted at 47c. per pound in carlots and 49c. in less than carlot quantities, on an f.o.b. works basis. Demand was reported as holding up good, and supplies were generally regarded as ample to meet all consuming demand.

Aconitine — Prices on amorphous mild material were firm at $27.50 to $32.50 per ounce, while the crystalline potent material was quoted at $78 to $85 per ounce.

Agar—Dealers were taking a loss on No. 1 Kobe by moving strip at $2.15 per pound last week, unloading material before the arrival of shipments from Japan at the new prices effected upon the occasion of the removal of government controlled floor prices. There was some material due to arrive in late December under the new price schedule, which it was indicated would be priced in the New York market at around $1.75 per pound. Meanwhile stocks on hand in the American market were low, and trading was quiet as buyers tended to wait for the new lower priced material so far as it was feasible for them to do so.

In the meantime the price position of agar and the market in general was in a mild state of confusion because of the offering of material not of No. 1 Kobe quality from Korea and other sources, at various prices.

Alcohol—The Department of Health of the City of New York has proposed amendment of its Sanitary Code 123 by the addition of two paragraphs which specify that denatured alcohol shall not be distributed under any circumstances from which it might reasonably be deduced any

Market Trends

Prices Advanced

Cocoa butter, 4c. per lb.

Prices Reduced

Agar, 10c. per lb.
Menthol, 10c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
255.1	255.4	257.1	259.0

(*For Current Prices see Page 9*)

of such products may be used for beverage purposes.

The proposed amendments further specify that the package containing denatured alcohol shall have affixed to it a label bearing the name of the article and the word "Poison" distinctly shown with the name and place of business of the seller all printed in red ink together with the words "denatured alcohol," the antidote for the product, and the symbol of the skull and cross bones printed conspicuously in red ink. The red label shall also have a "warning" indicating that the product cannot be used in any article of food or drink, and that it is both dangerous and unlawful to do so. The words "Poison," or "Warning," and "Antidote" are ordered to be printed in block type larger than other printing on the label.

Trade reaction to the proposal was critical primarily from the point of view that the proposed regulations as written apparently apply to all formulas of denatured alcohol, whereas there are many formulas which are never offered for other than industrial use and hence not placed before the public, plus the fact that most of the completely denatured alcohol formulas are actually not poisonous but only nauseating.

It was felt that comments from the trade would receive due consideration from the Board of Health of the City of New York, and that there would be some modification and clarification of the amendments prior to their adoption.

Meanwhile the market position of ethyl alcohol remained stable with a reported good volume of trading and prices holding to the July 1 level.

Arecoline Hydrobromide—The price position of this item was unchanged last week from the $5 to $5.75 per ounce which has prevailed over recent weeks. Demand was reported as steady and could be supplied from adequate available stocks.

Atropine—An increase in demand for the various salts of this alkaloid was expected to develop in the weeks immediately ahead. The alkaloid was firmly priced at $13.50 to $14 per ounce while the widely used sulphate was listed at $9 to $9.35 per ounce, unchanged from recent price levels.

Berberine Salts—A resumption of trade interest in this item was becoming more evident by virture of its considerably increased availability as a result of our being able to once again obtain good crude from Yugoslavia. Prices of the bisulphate, hydrochloride, and sulphate were all uniform, varying as to quantity, in the range of $45.75 to $48 per ounce.

Calcium Hypophosphite—This item was reported to be in good balance between supply and demand. Shipments were reasonably prompt, but there was no excess of stocks accumulating. Demand was good from an overall point of view. The price in drums ranged from 80c. to 83c. per pound depending upon quantity, unchanged from levels prevailing over recent months.

Castor Beans — There was no price change in the castor oil market last week and the prices were steady at former levels. Castor beans were slow, and nominally quoted at $106 per long ton, there being virtually no offerings.

Arrivals of castor beans at United States ports last week amounted to 28,164 bags equivalent to 4,224,600 pounds, compared with 82,104 bags or 12,315,600 pounds the previous week, and 21,507 bags or 3,226,050 pounds during the corresponding week of 1948.

Total imports of castor beans since January 1 of this year amounted to 1,518,322 bags equivalent to 227,748,300 pounds, compared with 1,230,055 bags or 184,604,250 pounds during the corresponding period of last year.

Colchicine—After the spectacular drop in the price of this alkaloid some weeks ago to the new price schedule of $86 to $96 per ounce, there have been no further

For Late Market Developments, See Page 4

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price changes. Limited demand was being met as required.

Cocoa Butter—Advances totaling 4 cents per pound developed in this market last week. This brought the bag carlot quotation to 54 cents per pound and less than carlot bag quantities to 54½ cents.

Ephedrine and Salts—Seasonal consumption of these items was expected to increase over the next few weeks as Winter weather approaches. Demand has been reasonably good from manufacturers who were buying to make ephedrine containing preparations in anticipation of the season's business. Prices were holding to levels in effect over recent months in which the anhydrous alkaloid was priced at 98c. per ounce, and the hydrous alkaloid at 92c. The hydrochloride was listed at 75c. the crystalline sulphate at 72c., and the powdered sulphate at 73c.

Ester Solvents—The market for all types of alkyl ester solvents was reported as steady at a substantially improved business volume. There were no price changes, abundant supplies, and a sustained good demand in virtually all directions. This situation was felt likely to prevail for the balance of the year.

Ethyleneglycol—The production and sale of this item continued on a full scale with supplies still described by producers as tight. The canning of antifreeze for this season was of course long past, but it was evident that buyers were taking large volumes for storage in anticipation of the next canning season. Prices were unchanged, and the softening of some antifreeze prices at the retail level was not at this time regarded by ethyleneglycol producers as likely to lead to lower bulk prices. The settled strike, effective Monday of last week, in the plants of a major producer was expected to take some of the pressure of demand off other producers.

Fishliver Oil—Market prices established on the various fishliver oils some weeks ago, still prevailed unchanged in an exceedingly quiet market characterized by limited trading. Demand in the East was slow and in the West still slower.

Formaldehyde—The supply situation on this item was still one of abundance, and in view of the tremendous potential production capacity available there was no possibility of a shortage. Demand which had been good over recent weeks as a result of strong operations in the adhesive and plastics industry, suffered only mildly from the steel strike which had cut off benzol for making phenol, a product widely used with formaldehyde in the manufacture of phenolic resin condensates.

With benzol production again in full swing, it was felt that there would be hardly more than a mildly delayed reaction, and formaldehyde business was expected to sustain a strong position with respect to demand for the coming months. Competition, however, was still keen as is always the case where there is a situation characterized by overproduction. There was plenty of methanol available for formaldehyde production.

Prices were essentially unchanged from

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the price pattern which developed last December, and has remained in effect ever since. The December price adjustment, however, was confined to modifications at distribution points, and the last real price change was in October of 1948.

Gelatin—Production of other than photographic grades of gelatin in September of this year amounted to 2,327,157 pounds, compared with an August output of 2,101,042 pounds, according to a report of the Bureau of Census. Stocks at the end of September stood at 4,671,109 pounds.

Glycerin—So far as the refined glycerin market was concerned, prices were stable, with no change expected in the foreseeable future. The supply position was one which tended toward the short side, but production was not so far behind that consumers were not able to get their requirements, at least if not from one source then from another.

Crude glycerin was apparently about as short as ever, despite the imports of foreign crude. The foreign crude arrivals and potential arrivals have not had the expected effect of easing the crude glycerin market which had been estimated. This was due in part to the large current demand for refined glycerin in the face of curtailed soaping operations. The production and use of synthetic detergents had seriously cut into soap markets this year, with consequent lessened output of glycerin.

Production of synthetic glycerin was reportedly running at virtual capacity, and this was felt in most quarters to be sufficient to mean the difference between a mildly tight supply position and a real shortage in the market. Accordingly, most glycerin buyers welcomed the influence of synthetic material on the current market. If glycerin consumption continues at current levels, there was little prospect for any easing of supplies in the immediate future. Meanwhile, the crude supply situation being what it is, domestic producers were still able to dispose of their entire production at the premium levels which have characterized the domestic crude market for several months.

Ketone Solvents—All ketone solvents were unchanged in price last week, and their demand was continuing at what was regarded as a good volume and one likely to continue for the balance of the year. There was likely to be no more than a mild delayed reaction to the steel strike, if any, in the demand for ketone solvents. Industrial consumption in lacquer and plastics was currently strong.

Lobeline Sulphate—Despite the acute shortage of this item, together with the high price of scarce lobelia herb, the price position of this alkaloid salt remained in the range of $34 to $38 per ounce, depending upon quantity.

Menthol—Brazilian material on the spot market continued to soften last week in line with the gradual decline which has been the price pattern over recent weeks. Spot material was currently quoted in the range of $10.70 to $10.80 per pound. Meanwhile, Chinese material was offered at around $11.10 per pound, duty paid, and this price was felt likely to give way to a lower price position in the immediate future. The volume of material involved, however, was relatively low, and price movements in Chinese menthol were felt not likely to exert any marked effect on the menthol market generally.

Milk Powder—Prices in the commercial market remained unchanged last week. Buyers were still taking in only their immediate requirements, which left stocks on hand far in excess of demand. CCC purchases for the period of November 4 to 9 amounted to 2,816,500 pounds of spray process skimmed milk powder and 1,257,258 pounds of roller process material procured at parity prices. This brought total skimmed milk government purchases to 389,437,649 pounds this year, compared with 119,705,352 pounds during the corresponding period of last year.

Potassium Hypophosphite—There was a reported good demand for this item, with supplies being about in balance with demand. Shipments could be made without consumers having to wait unduly, but there was no accumulation of heavy inventories. Prices quoted in the range of 90 to 93 cents per pound, in drums, depending upon quantity, and were unchanged from former levels.

Procaine Hydrochloride—The price situation with respect to this item last week appeared to be that, for example, in 1,000-pound lots material was moving and would continue to move under contract until the first of the year at $3.75 per pound. Meanwhile, for the most part spot material in 1,000-pound lots could be had under the new price schedule of $4.50 per pound, and not at the contract price of $3.75. The negotiation of new contracts effective January 1 were expected to be made at $4.50. The same thing applied to smaller quantity prices.

Sodium Carbonate Monohydrate—The USP material in granular form in drums was quoted at 5¾ to 6¼ cents per pound, depending upon quantity. The powdered material was quoted on the same quantity basis at 7¾ to 8¼ cents per pound. Supplies were adequate, trading slow, and demand generally was so limited that some sources had discontinued carrying the item.

Sodium Hypophosphite—The output of this material was said to be about the same level of production, so that consumers were able to buy their requirements with expectation of reasonably prompt delivery. Prices maintained over recent months have been firm at 85 to 88 cents per pound for material packed in 50-pound drums, the price spread depending upon quantity. Good demand characterized the current market and was expected to continue.

Vitamin A—Price quotations on synthetic vitamin A acetate or palmitate were currently listed at 40 cents per million units. The acetate has a potency of 1,000,000 units per gram while the palmitate has a potency of 800,000 units per gram.

The natural acetate was available in four potencies. Material ranging from 200,000 to 350,000 A units per gram was quoted at 28 to 33 cents per million units;

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351,000 to 450,000 unit material at 30 to 34 cents; 451,000 to 750,000 unit material at 33 to 37 cents, and 751,000 to 1,000,000 unit natural acetate at 35 to 39 cents. The price range in each potency was, of course, dependent upon the actual potency of the material purchased.

Bristol-Myers Names Allen Public Relations Director

Joseph M. Allen has been appointed vice-president in charge of public relations of the Bristol-Myers Company, New York. He was formerly vice-president in charge of advertising.

Mr. Allen joined Bristol-Myers Company in 1917, doing sales promotion work. Later he became personnel manager, and in October, 1924, became assistant to Lee H. Bristol, who was advertising director at that time. On January 1, 1945, Mr. Allen became an assistant vice-president, and in November of the same year advertising manager for all Bristol-Myers products. On February 6, 1946, he was elected a vice-president in charge of advertising.

Transandino Offers New d-Tubocurarine Chloride

The Transandino Company, Palo Alto, Calif., has announced a new d-tubocurarine chloride which it claims is essentially chemically pure. The new curarizing agent exhibits unique processing economies, according to the company, since therapeutic formulations can now be adjusted weight to volume with a previously unobtainable accuracy, without the necessity of bio-assay methods required by other curare alkaloids, and definitively checked by physico-chemical means. Also, the company says, the new d-tubocurarine chloride exhibits a high therapeutic ratio for the first time in the drug's history.

Cleveland Chemical Salesmen Appoint Committee Chairmen

The Chemical Salesmen of Cleveland appointed committee chairmen for the 1949-50 year at a recent board of directors meeting. The heads of the various groups are: Membership, Robert Lambert; publicity, H. G. Seed; program, Robert Stahl; welfare, E. F. Clark; entertainment, Howard Tallon, and athletics, R. A. Hagberg.

Stroud Jordan Award Established

The American Association of Candy Technologists, with the cooperation of the American Sugar Refining Company, has established the Stroud Jordan Award in commemoration of the work and contributions to the confectionary industry of Dr. Stroud Jordan. The award will be given annually to the person who has made an outstanding contribution in the field of candy technology.

Bernstein Gets Codliver Oil Agency

The William Bernstein Company, exporter and importer, New York, has been appointed exclusive agent for Gjert J. Lie A/S Raffinerie, Bergen, Norway, for the sale of its medicinal codliver oil in the New York market.

Bio-Ramo Offers Vitamin B-12 In Multiple Dose Vials

The Bio-Ramo Drug Company, Baltimore, Md., is currently offering multiple dose sterile vials of crystalline vitamin B_{12} under the name of "Claretin 12 Injection." The new product is available in a 5 cc. multiple dose vial, with each cc. containing 30 micrograms of crystalline vitamin B_{12}.

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Work Elected Chairman Of Ind. Engineering Chemists

Dr. Lincoln T. Work, Powdered Material Research Laboratories, Cambridge, Mass., has been elected chairman of the American Chemical Society's division of industrial and engineering chemistry. He succeeds Dr. Joseph C. Elgin, head of the department of chemical engineering in Princeton University.

Dr. Lincoln T. Work

Dr. W. A. Pardee, Gulf Research & Development Company, Pittsburgh, was chosen chairman-elect and C. J. Krister, E. I. du Pont de Nemours & Co., Wilmington, Del., was named secretary-treasurer. Dr. J. H. Rushton, Illinois Institute of Technology, and Dr. William Engs, American Cyanamid Company, New York, were named to the division's executive committee.

S. K. Love, United States Geological Survey, Washington, has been elected chairman of the division of water, sewage, and sanitation chemistry. He succeeds Dr. William Stericker, Philadelphia Quartz Company, Philadelphia.

J. J. Dwyer, Chesapeake & Ohio Railroad Company, Huntington, W. Va., was named vice-chairman of the division and Dr. T. E. Larson, Illinois State Water Survey, Urbana, secretary-treasurer. Dr. C. N. Sawyer, Massachusetts Institute of Technology, and Dr. H. C. Marks, director of chemical research for Wallace & Tiernan Company, Belleville, N. J., were named to the division's executive committee.

Dr. Arlie A. O'Kelly, associate director of the research and development department of the Socony-Vacuum Oil Company, Paulsboro, N. J., has been elected chairman of the division of petroleum chemistry. He succeeds Dr. Wayne E. Kuhn, manager of the technical and research division of the Texas Company, New York.

Dr. B. H. Shoemaker, Standard Oil Company (Indiana), Whiting, Ind., was named chairman-elect and Dr. C. G. Kirkbride, laboratory director of the Houdry Process Corporation, Marcus Hook, Pa., secretary-treasurer.

Prof. John C. Bailor, jr., University of Illinois, has been elected chairman of the division of physical and inorganic chemistry. He succeeds Prof. Martin Kilpatrick, chairman of the chemistry department of the Illinois Institute of Technology. Dr. Milton Burton, University of Notre Dame, divisional secretary last year, was named chairman-elect and Dr. Glenn T. Seaborg, University of California, was chosen secretary-treasurer.

Prof. Max A. Lauffer, head of the department of biophysics at the University of Pittsburgh, has been elected chairman of the division of biological chemistry. He succeeds Dr. John T. Edsall of the Harvard Medical School. Other officers of the division are Dr. E. E. Snell, University of Wisconsin, vice-chairman, and Dr. Paul W. Preisler, associate professor biological chemistry at Washington University, St. Louis, secretary-treasurer.

John S. Tinsley, research group leader of the Hercules Powder Company, Wilmington, Del., has been elected chairman of the division of cellulose chemistry. He succeeds Dr. Rollin F. Conaway, of the Rayon Department of E. I. du Pont de Nemours & Co., Waynesboro, Va.

Dr. Wayne A. Sisson, American Viscose Corporation, Marcus Hook, Pa., was named vice-chairman of the division, and Dr. W. E. Davis, Hercules Powder Company, was re-elected secretary-treasurer.

Green Book Error

The address of the Mackim Products Company, supplier of pharmaceuticals, drugs, chemicals and foodstuffs, was listed in the 1949-50 *Green Book* as being 1175 Broadway, New York 19, N. Y. It should have read 1775 Broadway.

Reed & Carnrick Issues 90th Anniversary Booklet

Reed & Carnrick, drug manufacturer, Jersey City, N. J., has published a special edition of its *Medical Pocket Quarterly* to celebrate its ninetieth anniversary, which will occur on January 1, 1950.

Headlined "The Pageant of an Era," the booklet traces the history of the medical profession from 1860 to the present, and parallels it with developments in pharmaceutical and endocrinological progress.

Trade Briefs

MRM Company, Brooklyn, N. Y., has appointed Samuel S. Smith general manager of its liquid filling equipment division.

Dr. William F. Bale, professor of radiation biology at the University of Rochester Medical School, has been appointed to the staff of the U. S. Atomic Energy Commission as radiobiologist of the Division of Biology and Medicine. He will be responsible for the biological and health aspects of the commission's waste disposal program.

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500 bgs, Thurston & Braidich Co, Granville, Port Sudan
250 bgs, T M Duche & Sons, Inc, Granville, Port Sudan
550 bgs, Innis, Speiden & Co, Granville, Port Sudan
50 bgs, William M Allison & Co, Granville, Port Sudan

ARSENIC, RED—40 dms, Industrial Sales Corp, Mahenge, Antwerp

ASBESTOS FIBER—30,794 bgs, Huxley Westfried Corp, Kristina Thorden, Leningrad

AZOPYRIN—3 cs, Freedman & Stater, Inc, Stockholm, Gothenburg

BARYT PAPER—13 cs, International Expediters, Inc, American Importer, Bremen
6 cs, George G Lippelgoes, American Importer, Bremen
1 pk, Walter Reimerdes Co, American Importer, Bremen

BEES WAX—100 bgs, Samuel Zeilin & Sons Co, Mormacowl, Santos
10 bgs, General Import Distributors, Inc, Agwiking, Havana
181 bgs, W R Grace & Co, Santa Rita, San Antonio
273 bgs, Wessel, Duval & Co, Loide Equador, Porto Alegre
91 bgs, Mercantile Metal & Ore Corp, Loide Equador, Porto Alegre
91 bgs, Strahl & Pitsch, Inc, Loide Equador, Port Alegre
22 bgs, M Rothchild & Co, Poseidon, Santiago
12 bgs, D Steengrafe & Co, Poseidon, Santiago
30 bgs, E Vadillo Ruiz, Poseidon, Santiago
200 bgs, Manufacturers Trust Co, Poseidon, Santiago

BERGAMOT OIL—124 cs, Exton, Messina
400 cs, Chemical Bank & Trust Co, Exton, Messina
180 cs, Bank of Manhattan Co, Exton, Messina
40 cs, Chase National Bank, Exton, Messina

BLOOD, DRIED—567 bgs, Mormachawk, Buenos Aires
622 bgs, H J Baker & Co, Alphacca, Buenos Aires

BONES—24 bgs, International Packers Commercial Co, Mormacowl, Rio Grande
18 bgs, International Packers, Commercial Co, Mormacowl, Santos
MEAL—1,103 bgs, Wessel, Duval & Co, Edam, Antwerp

BRUCINE—15 cs, European Chemical Co, American Importer, London
4 cs, American Traveler, Glasgow

BUTTONLAC—50 bgs, William Zinsser Co, Markhor, Calcutta

CAMPHOR, POWDER—880 cs, Norda Essential Oil & Chemical Co, Tudor, Keelung
30 cs, Max Van Pels Co, Ekefors, Keelung
TABLET—30 cs, Max Van Pels Co, Ekefors, Keelung
BROWN—50 dms, Dodge & Olcott, Inc, Tudor, Keelung
WHITE—54 dms, Solta Import Export Co, Tudor, Keelung
12 dms, Farmers Chemical Co, Tudor, Keelung
50 dms, Dodge & Olcott, Inc, Tudor, Keelung

CARAWAYSEED—200 bls, Louis Furth, Inc, Concordia, Rotterdam
100 bls, Becker Mayer Seed Co, Concordia, Rotterdam

CARDAMOM—45 cs, William E Martin & Co, Chastine Maersk, Colombo

CARNAUBA WAX—36 bgs, Smith & Nichols, Inc, Bowgran, Rio de Janeiro
160 bgs, Wessel, Duval & Co, Argentina, Rio de Janeiro
111 bgs, Wax & Rosin Products Co, Mormactern, Parnaiba
40 bgs, Exton, Larnaca

CASEIN—500 bgs, British American Chemical Supply Co, Argentina, Buenos Aires
1,000 bgs, New York Trust Co, Argentina, Buenos Aires
500 bgs, Paul A Dunkel & Co, Argentina, Buenos Aires
5,000 bgs, Crawford Co, Argentina, Buenos Aires
2,000 bgs, Borden Co, Argentina, Buenos Aires
3,000 bgs, American Cyanamid Co, Argentina, Buenos Aires
2,000 bgs, Hercules Powder Co, Flying Enterprise, Rotterdam

CASSIA—100 bls, Wah Young Co, Tudor, Hong Kong
100 bls, Banque Belge, Tudor, Hong Kong
250 bls, Arthur G Dunn & Co, Ekefors, Hong Kong
200 bls, Karl H Landes, Inc, Ekefors, Hong Kong

CASTORBEANS—1,400 bgs, Spencer Kellogg & Sons Co, Rio Guavas, Manta
16,800 bgs, Baker Castor Oil Co, Loide Equador, Santos
3,334 bgs, Spencer Kellogg & Sons Co, Loide Equador, Santos
2,541 bgs, Baker Castor Oil Co, Froste, Santos
4,089 bgs, Baker Castor Oil Co, Mormacowl, Bahia

CINNAMON LEAF OIL—45 dms, Simpson, Spence & Young Co, American Importer, London
QUILLS—600 bls, Otto Gerdau Co, Granville, Colombo

CITRONELLA OIL—12 dms, Givaudan Corp, Tudor, Keelung
38 dms, Magnus, Mabee & Reynard, Inc, Tudor, Keelung

CLAY—40 cs, J Hershkowitz, Inc, Claiborne, Bremen

COCONUT OIL—320 tons, E F Drew & Co, Tudor, Cebu
518 tons, Philippine Refining Co, Tudor, Manila
150 tons, E F Drew & Co, Tudor, Manila

COLORS—10 cyls, Sandoz Chemical Works, Herdis, Antwerp

COLUMBITE ORE—1,120 bgs, Union Carbide & Carbon Corp, Cabano, Apapa

COPAL GUM—26 bgs, France, Campbell & Darling, Tudor, Manila
100 bgs, Industrial Chemicals, Inc, Mahenge, Antwerp
300 bgs, Gillespie-Rogers-Pyatt, Granaredo, Matadi
500 bgs, U S Industrial Chemical Co, Granaredo, Matadi
200 bgs, O G Innes Corp, Granaredo, Matadi

COPRA—1,100 tons, El Dorado Oil Works, Howell Lykes, Legaspi

CORIANDERSEED—370 cs, Louis Furth & Co, Argentina, Buenos Aires
560 bgs, J Raphael & Sons, Argentina, Buenos Aires
250 bgs, USIAC, Excellency, Casablanca

CRESYLIC ACID—337 dms, Elbert & Co, American Traveler, Manchester
400 dms, Tar Residual, Ltd, American Traveler, Manchester
100 dms, Washine National Sales, Inc, American Traveler, Liverpool
200 dms, American Cyanamid Co, American Traveler, Liverpool
183 dms, American Traveler, Glasgow

CRISAROBINA ROOTS—4 cs, S B Penick & Co, Mormacowl, Bahia

CUMINSEED—374 bgs, Reney Shipping Co, Concordia, Antwerp

DEXTRIN—25 bgs, Stein, Hall & Co, Herdis, Rotterdam

DOGFISH LIVER OIL—40 dms, Wilbur Ellis Co, African Sun, Cape Town

DRUGS, CRUDE—34 bgs, S B Penick & Co, Exton, Larnaca

DYESTUFFS—4 dms, Ciba Co, American Importer, Le Havre

ESSENTIAL OIL—1 cs, W J Bush & Co, American Importer, London
3 dms, Dodge & Olcott, Inc, Erik Banck, Vera Cruz

ETHOXYLINE RESINS—2 cs, Ciba Co, American Importer, Le Havre

EUCALYPTUS OIL—6 dms, W J Bush & Co, Ekefors, Keelung

FERRO MOLYBDENUM—400 cs, J W Hampton Jr & Co, Ekefors, Yokohama

FERRO TUNGSTEN—360 bgs, Otto Sales Co, Ekefors, Hong Kong

FERTILIZER—907 tons, F W Berk & Co, Claiborne, Bremen

FISH LIVER OIL—7 dms, National City Bank, Granadero, Luanda

FUEL OIL—106,098 bbls, Pan American Petroleum Co, Rosina Marron, Aruba
90,000 bbls, Esso Export Corp, Esso Bolivar, Aruba
170,000 bbls, Esso Export Corp, Esso Stockholm, Aruba
105,000 bbls, Esso Export Corp, Esso Bethlehem, Aruba
10,000 bbls, Asiatic Petroleum Corp, Santa Rosa, Curacao
104,000 bbls, Mexican Petroleum Corp, R F McConnell, Aruba
90,000 bbls, Esso Export Corp, Esso Aruba, Aruba
102,794 bbls, Paragon Oil Co, Mormacfuel, Aruba
63,627 bbls, Shell Oil Co, Patella, Curacao

GELATIN—100 bgs, T M Duche & Sons, Inc, American Importer, London

GLYCERIN—139 dms, C J Schellings & Co, Falstria, Copenhagen

GRAPHITE—286 bgs, Charles Pettinos, Inc, Granville, Colombo

GUAIACWOOD OIL—5 cs, Ungerer & Co, Mormachawk, Montevideo

GYPSUM, CRUDE—8,553 tons, National Gypsum Co, Dingwall, Dingwall
9,970 tons, United States Gypsum Co, Gypsum Prince, Hantsport

HAKE LIVER OIL—70 dms, Wilbur Ellis Co, African Sun, Capetown

HAWTHORN BERRIES—12 bgs, S B Penick & Co, Ribeira Grande, Lisbon

INSECTICIDE—48 dms, S B Penick & Co, American Importer, London

IODINE—125 cs, Bank of Manhattan Co, Reinholt, Yokohama

IPECAC ROOT—10 bls, Irving Trust Co, Santa Rosa, Cartagena
8 bls, Manufacturers Trust Co, Santa Rosa, Cartagena

IRON OXIDE—2 bgs, American Importer, London

KARAYA GUM—667 bgs, Reuben Import Export Corp, Chastine Maersk, Bangkok

LANOLINE, ANHYDROUS—99 dms, M W Hardy & Co, American Traveler, Liverpool

LAUREL LEAVES—54 bls, Morris J Golombeck Inc, Ribeira Grande, Lisbon

LEMON OIL—9 cs, Centflor Manufacturing Co, Exton, Messina
2 cs, Florasynth Labs, Inc, Exton, Messina

LEMONGRASS OIL—2 dms, W J Bush & Co, Cape Cod, Cristobal
12 dms, Herdis, Rotterdam

LICORICE ROOT — 1,713 pkgs, MacAndrews & Forbes Co, Kristina Thorden, Leningrad

LIME OIL—43 cs, Ungerer & Co, Argentina, Port of Spain
47 cs, Dodge & Olcott, Inc, Argentina, Port of Spain
30 cs, Fritzsche Bros, Inc, Argentina, Port of Spain

LIQUIDAMBAR—3 dms, David Klapisch Co, Cape Cod, Cristobal

LIVERMEAL—988 bgs, Swift & Co, Alphacca, Buenos Aires
495 bgs, H J Baker & Co, Alphacca, Buenos Aires

LOCUST BEANS—80 bgs, Levy & Levis Co, Exton, Larnaca
100 bgs, S B Penick & Co, Excellency, Casablanca

GUM—400 bgs, Innis, Speiden & Co, Mahenge, Antwerp
100 bgs, National City Bank, Mahenge, Antwerp
210 bgs, Guaranty Trust Co, Mahenge, Antwerp
200 bgs, Dodwell & Co, Mahenge, Antwerp
50 bgs, William M Allison Co, Exton, Larnaca
20 bgs, Stein, Hall & Co, Exton, Larnaca

MAGNESIUM SULPHATE—1,500 bgs, F W Berk & Co, American Judge, Amsterdam

MANGROVE BARK—3,000 bgs, Barkey Importing Co, Rio Guayas, Tumaco

MEDICINAL HERBS—9 bbls, Ernst Bischoff, Noonday, Bremen
ROOTS—9 bgs, F W Berk & Co, Cape Cod, Cristobal

MENTHOL CRYSTALS—20 cs, Paul A Dunkel & Co, Reinholt, Taku Bar

MICA—4 cs, Whittaker, Clark and Daniels, Markhor, Calcutta
233 cs, Asheville, Schoonmaker Mica Co, Markhor, Calcutta
215 cs, Stein, Hall & Co, Markhor, Calcutta
63 cs, Asheville, Schoonmaker Mica Co, Markhor, Calcutta
12 cs, Cornelius & Suhr Co, Markhor, Calcutta
65 cs, A D Brown Co, Markhor, Calcutta
75 cs, Otto Gerdau Co, Markhor, Calcutta
229 cs, Asheville, Schoonmaker Mica Co, Markhor, Calcutta
8 cs, Cornelius & Suhr Co, Markhor, Calcutta
49 cs, Ford Radio & Mica Co, Markhor, Calcutta
15 cs, Gillespie-Rogers-Pyatt Co, Markhor, Calcutta
50 cs, Asheville, Schoonmaker Mica Co, Markhor, Calcutta
709 cs, Asheville, Schoonmaker Mica Co, Markhor, Calcutta
47 cs, Ford Radio & Mica Corp, Argentina, Rio de Janeiro
121 cs, Stein, Hall & Co, Pacific Unity, Calcutta
121 cs, United Mineral & Chemical Corp, Pacific Unity, Madras
100 cs, Cornelius & Suhr Co, Pacific Unity, Madras
35 cs, Colonial Trust Co, Stockholt, Rio de Janeiro
125 cs, Asheville, Schoonmaker Mica Co, African Sun, Durban
582 cs, Otto Gerdau Co, African Sun, Durban
10 cs, Sylvania Electric Products Inc, Mormacowl, Rio de Janeiro

MOLYBDENITE—62 dms, J W Hampton Jr & Co, Tudor, Kobe
64 dms, J W Hampton Jr & Co, Tudor, Yokohama

MONOSODIUM GLUTAMATE — 250 cs, Wilbur, Ellis Co, Tudor, Yokohama

MONTAN WAX—1,975 bgs, Redemann & Co, Noonday, Bremen

NAPHTHALENE—740 bgs, Herdis, Antwerp
1,252 bgs, European Chemical Co, Claiborne, Antwerp
1,000 bgs, Assoc. Metals & Minerals Corp, Claiborne, Antwerp

NAPHTHENIC ACID — 100,800 gls, Stanco Inc, Esso Aruba, Aruba

NISPERO GUM—87 cs, L A Dreyfus Co, Cape Cod, Cristobal

OCOTEA CYMBARUM—23 dms, Dodge & Olcott, Inc, Mormacowl, Itajahi

OITICICA OIL—187 dms, Murray Oil Products, American Importer, London

OREGANO LEAVES—23 bls, Ribeira Grande, Lisbon
12 bkts, F Tommaso Co, Exton, Messina
100 bkts, T Pipitone Co, Exton, Messina
100 bgs, Mutual Spice Co, Exton, Catania

OURICURY WAX—112 bgs, Frank B Ross Co, Mormacowl, Bahia
112 bgs, Innis, Speiden & Co, Mormacowl, Bahia
118 bgs, Wessel, Duval & Co, Mormacowl, Bahia

OXGALL—6 dms, Charles Hollinshed Co, Mormachawk, Buenos Aires
17 cks, Agroproducts Corp, Bowgran, Buenos Aires
4 tcs, Tupman, Thurlow Co, Bowgran, Buenos Aires
4 tcs, Bowgran, Buenos Aires
4 bbls, Tupman, Thurlow Co, Mormacowl, Rio Grande

OXIDE WASTE—224 bgs, J Lee Smith & Co, American Traveler, Belfast

PALM OIL—225 tons, Durkee Famous Foods Corp, American Traveler, Liverpool

PAPAIN—25 cs, R J Prentiss & Co, Granville, Colombo

PEARL OIL—3 cans, Rona Labs, Inc, American Judge, Rotterdam

PEATMOSS—300 bls, J E Bernard & Co, American Importer, Bremen
766 bls, East Asiatic Co, Falstria, Copenhagen

PEPPER, BLACK—230 bgs, Arthur G Dunn Co, American Importer, London
160 bgs, Otto Gerdau Co, American Importer, London
160 bgs, Polak Trading Corp, American Importer, London
320 bgs, International Crediet Handel, American Importer, London
156 bgs, Virchand Panachand, Inc, Hoegh Merchant, Bombay
135 bgs, Imperial Commodities Corp, Chastine Maersk, Bangkok
560 bgs, Reuben Import Export Corp, Chastine Maersk, Bangkok
80 bgs, Moller Trading Corp, Chastine Maersk, Alleppey
128 bgs, M Golodetz & Co, Chastine Maersk, Alleppey
80 bgs, Imperial Commodities Corp, Chastine Maersk, Alleppey
320 bgs, Joensson & Cross, Inc, Chastine Maersk, Alleppey
80 bgs, Arthur G Dunn Co, Chastine Maersk, Alleppey
160 bgs, Mincing Trading Co, Chastine Maersk, Alleppey
WHITE—20 bgs, Van Norden & Archibald Co, Chastine Maersk, Colombo

PETITGRAIN OIL—3 dms, Polaks Frutal Works, Inc, Mormachawk, Buenos Aires
12 dms, Schimel & Co, Mormachawk, Buenos Aires

PETROLEUM, CRUDE—14,917 tons, California Oil Co, Yellow Tavern, Ras Tanura
121,705 bbls, Esso Standard Oil Co, Esso New Haven, Puerto La Cruz
100,936 bbls, Cities Service Oil Co, Bull Run, Tampico
122,246 bbls, Socony Vacuum Oil Co, Cornell, Puerto La Cruz
111,004 bbls, Esso Standard Oil Co, Esso Chattanooga, Las Piedras
120,395 bbls, Esso Standard Oil Co, Esso Scranton, Puerto La Cruz
120,232 bbls, California Refining Co, Rock Landing, Puerto La Cruz

PHTHALIC ANHYDRIDE—681 cs, Fallek Products Co, Herdis, Antwerp
4,286 bgs, Fallek Products Cor, Mahenge, Antwerp

POPPYSEED—100 bls, Louis Furth Inc, Concordia, Rotterdam
100 bls, Becker Mayer Seed Co, Concordia, Rotterdam

QUEBRACHO EXTRACT—7,276 bgs, River Plate Import & Export Corp, Argentina, Buenos Aires

RESIN, SYNTHETIC, SCRAP—71 bgs, H Muehlstein & Co, American Importer, London

SASSAFRAS OIL—25 dms, Givaudan Corp, Ekefors, Keelung

SEEDLAC—300 bgs, Gillespie-Rogers-Pyatt Co, Markhor, Calcutta
200 bgs, Haeuser Shellac Co, Markhor, Calcutta
200 bgs, William Zinsser Co, Markhor, Calcutta
250 bgs, Suhr & Budelman Co, Markhor, Calcutta
100 bgs, Schwab Bros Co, Markhor, Calcutta
100 bgs, William Zinsser Co, Markhor, Calcutta
200 bgs, Gillespie-Rogers-Pyatt Co, Markhor, Calcutta
200 bgs, William Zinsser Co, Markhor, Calcutta
300 bgs, Bradshaw-Praeger Co, Markhor, Calcutta
200 bgs, Haeuser Shellac Co, Markhor, Calcutta
500 bgs, Suhr & Budelman Co, Markhor, Calcutta
250 bgs, Mantrose Corp, Markhor, Calcutta
400 bgs, C H Timms Co, Markhor, Calcutta
200 bgs, Corn Exchange Bank & Trust Co, Markhor, Calcutta
250 bgs, Ralli Bros, Markhor, Calcutta
100 bgs, Bankers Trust Co, Markhor, Calcutta
200 bgs, Mantrose Corp, Markhor, Calcutta
500 bgs, Reuben Import Export Corp, Chastine Maersk, Bangkok
250 bgs, Gillespie-Rogers-Pyatt Co, Chastine Maersk, Bangkok
200 bgs, Colony Import & Export Corp, Chastine Maersk, Bangkok

SHARK LIVER OIL—125 dms, Consumers Imports Co, Tudor, Yokohama
15 dms, Frazar & Co, African Sun, Cape Town

SHEEP GALL—1 tc, Tupman, Thurlow Co, Bowgran, Buenos Aires
1 tc, Bowgran, Buenos Aires

SHELLAC—100 bgs, William Zinsser Co, Markhor, Calcutta
150 bgs, Colony Import Export Corp, Markhor, Calcutta
200 bgs, Schwab Bros Corp, Markhor, Calcutta
50 bgs, Dings & Schuster Co, Markhor, Calcutta
100 bgs, Bankers Trust Co, Markhor, Calcutta
200 bgs, Ralli Bros, Markhor, Calcutta
150 bgs, William Diehl Co, Markhor, Calcutta
50 bgs, Schwab Bros Corp, Markhor, Calcutta
50 bgs, C L Camerik Co, Markhor, Calcutta
100 bgs, G H Dockstader Co, Markhor, Calcutta

SHELLAC—50 cs, William Diehl & Co, Kristina Thorden, Gothenburg
430 bgs, J Henry Schroder Banking Corp, Herdis
WAX—28 bgs, William Zinsser Co, Markhor, Calcutta

SODIUM METANILATE—16 bbls, Wilson Export & Import Co, Herdis, Antwerp

TALHA GUM—40 bgs, S B Penick & Co, American Importer, London

TANKAGE—796 bgs, Armour & Co, Argentina, Buenos Aires

TANTALITE ORE—10 bgs, Watson Geach & Co, African Sun, Walvis Bay

TAPIOCA FLOUR—100 bgs, American Key Products Corp, Chastine Maersk, Bangkok

TUNG OIL—52 dms, East Asiatic Co, Mormachawk, Buenos Aires
551 tons, Pacific Vegetable Oil Co, Bowgran, Buenos Aires

TYROLEAN DWARF OIL—5 cs, Rohner-Gehrig Co, Claiborne, Rotterdam

ULTRAMARINE BLUE—150 cks, Standard Ultramarine Co, Marengo, Hull

UMBER—1 cs, Exton, Larnaca

UREA—20 bgs, Terra Chemicals, Inc, Herdis, Rotterdam

WATTLE BARK—1,123 bls, Barkey Importing Co, Mormacowl, Puerto Alegre

WHITING—1,600 bgs, Nicholas H Weitzner & Co, Mahenge, Antwerp

WITHERITE—160 tons, E I du Pont de Nemours & Co, Marengo, Hull

WOOL GREASE—161 dms, Hummel Chemical Co, Herdis, Antwerp
405 dms, N I Malmstrom Co, American Traveler, Manchester
12 dms, Orbis Products Corp, American Traveler, Liverpool

YLANG YLANG OIL—1 cs, U S Rubber Co, American Importer, Havre

ZINC CHLORIDE — 7 dms, Riches-Nelson, Inc, Edam, Antwerp
OXIDE—2,000 bbls, Onmi Export Corp, Manuel Calvo, Bilbao

Baltimore

BONE MEAL—1,167 bgs, Elbert & Co, Ronda, Roven
1,000 bgs, E J Lang Co, Ronda, Roven

CHROME ORE—2,000 tons, E J Lavino & Co, Tudor, Masinloc

CHROMITE—4,994 tons, L J Buck, Inc, African Sun, Lourenco Marques
629 tons, L J Buck, Inc, African Sun, Lourenco Marques

EARTH COLORS—34 cks, Mineral Pigments Corp, American Judge, Amsterdam

MANGANESE ORE—5,600 tons, E J Lavino & Co, Cabano, Takoradi
3,360,000 lbs, Westinghouse Elec International Co, Pacific Unity, Calcutta

SODIUM SILICOFLUORIDE—400 bgs, E M Sargeant Pulp & Chemical Co, Mormacyork, Copenhagen

Boston

BONES—419 bgs, Tupman Thurlow Co, Bowgran, Buenos Aires

CASEIN—600 bgs, Paul A Dunkel & Co, Bowgran, Buenos Aires

Los Angeles

BONEMEAL—348 bgs, Van Waters & Rogers, Inc, President Harding, Alexandria

THYME LEAVES—100 bgs, Hismoco American Co, President Harding, Marseilles

New Orleans

COPPER—1,879 tons, Procter & Gamble Co, Howell Lykes, Manila

Norfolk

BLOOD, DRIED—1,577 bgs, Mormachawk, Buenos Aires
3,706 bgs, H J Baker & Co, Alphacca, Buenos Aires

COCOA RESIDUE—2,267 bgs, Woodward & Dickerson, Inc, American Importer, Le Havre

MANGANESE ORE—4,480,000 lbs, Overseas Metal & Ore Corp, Pacific Unity, Calcutta
1,904,000 lbs, Richard Murray & Co, Pacific Unity, Calcutta
3,360,000 lbs, Westinghouse Elec International Co, Pacific Unity, Calcutta
540 tons, Ore Trading Corp, African Sun, Durban

MICA—132 cs, Eugene Munsell & Co, American Importer, London

WATTLE BARK—2,048 bgs, River Plate Import & Export Corp, African Sun, Durban

Philadelphia

BONE GRIST—11,578 bgs, Baugh & Sons Co, Mormachawk, Rosario

CHEMICALS—59 ctns, H A Gogarty & Co, American Manufacturer, Liverpool

CHINA CLAY—51 tons, Moore & Munger Co, Stonegate, Avonmouth
50 tons, T H Sant Co, Stonegate, Avonmouth
283 tons, United Clay Mines Co, Stonegate, Avonmouth
127 tons, Paper Makers Corp, Stonegate, Avonmouth

COD LIVERS—10 bbls, Danca Export Corp, Mormacyork, Copenhagen

CRYOLITE ORE—2,930 tons, Pennsylvania Salt Mfg Co, Nordborg, Ivigtut

FUEL OIL—72,291 bbls, Publicker Industries, Macoa, Pointe Apierre

GUM DUST—20 bgs, J Meyer Sons, Inc, Averdyk, Rotterdam

GYPSUM—268 bgs, Whittaker, Clark & Daniels, Inc, American Manufacturer, Liverpool
CRUDE—6,085 tons, U S Gypsum Co, Gypsum King, Hantsport

LEAD—453,580 kilos, American Metals Co, Marna Dan, Callao
220,462 kilos, American Union Trading Co, Arnold Maersk, Yokohama
SCRAP—220,462 lbs, American Union Transport Co, Pioneer Mail, Yokohama

NITROGEN CRYSTALS—2,000 bgs, United Sterling Co, American Manufacturer, Liverpool

PEATMOSS—308 bls, American Builder, Glasgow

PETROLEUM, CRUDE—116,702 bbls, Gulf Oil Corp, Gulfpeak, Puerto La Cruz
117,336 bbls, Gulf Oil Corp, Gulf Victor, Puerto La Cruz
120,788 bbls, Gulf Oil Corp, Jeanny, Mena Al Ahmadi
131,319 bbls, H G Schad, Olympic Games, Mena Al Ahmadi
101,670 bbls, Atlantic Refining Co, Brunswick, Puerto La Cruz
168,645 bbls, Socony Vacuum Oil Co, Hampton Roads, Mena Al Ahmadi
107,422 bbls, Gulf Oil Corp, Gulfbird, Las Piedras
70,235 bbls, Cities Service Oil Co, Marathon, Tampico
143,301 bbls, Gulf Oil Corp, Gulfpride, Puerto La Cruz
118,498 bbls, Atlantic Refining Co, Atlantic Refiner, Paratacual
112,752 bbls, Socony Vacuum Oil Corp, Mobilgas, Covenas
115,361 bbls, Gulf Oil Corp, Gulfswamp, Las Piedras

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PETROLEUM, CRUDE—196,748 bbls, Texas Oil Co, Ohio, Puerto La Cruz
117,663 bbls, Gulf Oil Corp, Gulfswing, Puerto La Cruz
107,035 bbls, Atlantic Refining Co, Atlantic Belgium, Puerto La Cruz
189,111 bbls, Socony Vacuum Oil Co, Sovac Pegasus, Mena Al Ahmadi
116,723 bbls, Gulf Oil Corp, Arickavee, Mena Al Ahmadi
TAPIOCA FLOUR—200 bgs, Perkins Glue Co, Birkaland, Imbitura
WATTLE BARK—1,650 bls, Olson Sales Co, African Endeavor, Durban

San Francisco

AJINOMOTO—70 cs, Wilbur Ellis Co, Julia Luckenbach, Yokohama
CASEIN—280 bgs, Hercules Powder Co, Falkanger, Buenos Aires
COPRA—250 tons, El Dorado Oil Works, Hoegh Silverbeam, Castanas
250 tons, Cargill, Inc, Hoegh Silverbeam, Castanas
1,600 tons, El Dorado Oil Works, Julia Luckenbach, Cebu
FISH LIVER OIL—5 dms, Albumina Supply Co, Anna Maersk, Yokohama
PEPPER, BLACK—80 bgs, D Hecht & Co, Hoegh Silverbeam, Colombo
160 bgs, Mincing Trading Corp, Delptdyk, Antwerp
QUEBRACHO EXTRACT—682 bgs, Bank of London & South Africa, P & T Trader, Buenos Aires
SEAWEED—127 bls, American Agar Chemical Co, Santa Leonor, Valparaiso
SOAP—2 cs, H L Ladd Co, Delfftdyk, Antwerp
TUNG OIL—310 tons, Balfour, Guthrie & Co, Nikobar, Hong Kong

Tampa

FERTILIZER MATERIAL—725 tons, F W Berk & Co, Noonday, Bremen

Chemical Workers Weekly Earnings Decreased in Aug.

Weekly earnings of factory workers in chemical and related fields showed a slight decrease in August as compared with June and July. A breakdown of the weekly earnings for the chemical and allied industries follows:—

	Weekly		
	Aug., 1949	July, 1949	June, 1949
Chemical and allied products	$58.83	$59.40	$59.08
Drugs and medicine	56.14	56.40	56.28
Fertilizers	45.24	46.87	46.58
Fibers, synthetic	54.02	55.13	54.63
Industrial inorganic chemicals	63.16	64.00	65.41
Industrial organic chemicals	60.64	61.43	60.56
Paints, pigments and fillers	59.41	59.31	59.90
Petroleum refining	74.72	76.60	74.73
Plastics, except synthetic rubber	59.72	59.78	59.68
Rubber, synthetic	67.62	68.21	67.07
Soap and glycerin	66.86	67.56	66.34
Vegetable, animal oils and fats	52.33	52.69	52.12

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Shriner Named Editor Of *Chemical Reviews*

Appointment of Dr. Ralph L. Shriner of the State University of Iowa as editor of *Chemical Reviews*, a bimonthly publication owned and edited by the American Chemical Society, has been announced by Dr. Roger Adams, of the University of Illinois, chairman of the society's board of directors. He will assume his new duties on January 1, succeeding Dr. W. Albert Noyes, jr., of the University of Rochester, who will become editor of the *Journal of the American Chemical Society* on that date.

Pesticides Labeling

—Continued from page 4

ments are required for the few formulations in the fourth category.

Warning or caution statements on the labels of economic poisons must give concise and easily understood warnings as to the hazards associated with use of the products, together with instructions to be followed to insure adequate protection. Precautionary labeling should be aimed directly at the hazard associated with the formulation as it is sold to and used by the consumer, whether it is suitable for use directly or must be diluted or mixed prior to application.

Food Contamination Safeguards

If a product is intended for use on food crops, its application should be limited by appropriate statement to such time as will avoid danger of food contamination from spray residue. Even if not covered in this interpretation, the division said, unique hazards associated with the use of any product—such as the possibility of injury to beneficial crops from careless application of herbicides or the destruction of beneficial insects by inopportune use of certain insecticides—must be recognized and suitable precautionary statements must be placed on the label of such products.

In general, the presence on the label of either the "skull and crossbones" and the word "poison" or the warning "may be fatal if swallowed" will substitute for such precautionary statements as "avoid contamination of food" and "keep away from children and domestic animals."

Fire Hazard Cautions

Fire hazard cautions are based on the flash point of the particular product. The manufacturer of a formulation should determine the flash point of his product and label it accordingly. For formulations having flash points below 80 degrees F. by the tag open cup method, a statement "Danger—extremely flammable. Do not use or store near heat or open flame" would be appropriate. When flash points are between 80 degrees and 150 degrees F., an acceptable statement would be "Danger—keep away from heat or open flame." For formulas having flash points above 150 degrees F., no warning as to fire hazards are required.

The agency said that antidote statements must contain emergency first aid instructions suitable for use by a layman. In most cases they should require only materials which are readily available.

Label Facsimiles

It is permissible and usually advisable, it was added, for a manufacturer of economic poisons to submit facsimiles of proposed labeling to the insecticide division, production and marketing administration, Department of Agriculture, Washington 25, D. C., for review and tentative acceptance before investing in new printed labels.

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Absorbent, oil and water, 240,000 pounds, Navy Purchasing Office (New York 3) invitation 5836, December 15.

Aluminium oxide, abrasive, 7,500 pounds, Navy Purchasing Office (New York 3) invitation 5831, December 14.

Aluminium phosphate gel, veterans Administration (Washington 25) invitation A-33, November 28.

Biologics, various, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 196, November 30.

Calcium chloride, 40,000 pounds, Navy Purchasing Office (New York 3) invitation 5840, December 14.

Compressed gases, acetylene, 58,500 cubic feet and oxygen, 181,500 cubic feet, from January 1 through June 30, 1950, Army Engineers Corps (P.O.B. 60, Vicksburg, Miss.) invitation CIVENG-79, December 9.

Cottonseed meal, 10 tons, Department of Agriculture (Washington 25) invitation 356-50, November 29.

Drugs, acetophenetidin, acetysalicylic acid and caffeine tablets, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 203, November 30; oleovitamin A capsules, succinylsulfathiazole tablets, Veterans Administration (Washington 25) invitation A-35, December 2.

Ferric chloride, anhydrous, approx. 300,000 pounds, from January 1 through June 30, 1950, District of Columbia Government (Washington 1) schedule 14015-A, November 22.

Fertilizer, 1,920 tons, mixed, 3,030 tons, U. S. Air Force (Wright-Patterson Base, Dayton, Ohio) invitation 038-356, November 25.

Fluorides, calcium fluoride, 910 pounds, and potassium bifluoride, 9,350 pounds, Navy Department (Invitation Supply Office, Philadelphia 11) invitation 9516, November 23.

Fumigating materials, including chloropicrin, hydrogen cyanide and calcium cyanide, from January 1 through June 30, 1950, Bureau of Federal Supply (Washington 25) class 51, November 22.

Hydraulic fluid, brake, 2,150 gallons, Navy Purchasing Office (New York 3) invitation 5814, December 9.

Injections, sodium ascorbate, 1,152 boxes of 25 each, and **insulin,** 22,200 bottles of 10cc each, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 198, November 30.

Ink, duplicating machine, as required from January 1 through June 30, 1950, Bureau of Federal Supply (Washington 25) invitation 2C-10428-R, November 28.

Insulating oil, 7,500 gallons, U. S. Air Force (Wright-Patterson Base, Dayton, Ohio) invitation 096-185, November 29.

Linseed oil, boiled, 266 gallons, Bureau of Federal Supply (Washington 25) invitation 5H-82767-R, November 25.

Paint, enamel, 7,700 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation 50,006, November 30; **various** 15,500 gallons, invitation 50,010, November 30; 7,700 gallons, invitation 50,.017, December 5; 10,000 gallons, invitation 50.008, November 30; 39,200 gallons, invitation 50,-015, December 7; approx. 640 gallons, Quartermaster, Military Academy (West Point, N. Y.) invitation 48, November 22; 42,595 gallons, U. S. Maritime Commission (Washington 25) invitation SD-50-164, November 30; 2,750 gallons, Bureau of Federal Supply (Washington 25) invitation 5H-82-762-R, November 22; 1,500 gallons, invitation 5H-82-763-R, November 23; 650 gallons, invitation 5H-82750, November 25; 625 gallons, invitation 5H-82754-R, November 23; 1,312 gallons, Bureau of Federal Supply (New York 3) invitation NY-W&BO-W-18705, November 23.

Paraffin wax, embedding, 1,104 pounds, Veterans Administration (Washington 25) invitation A-33, November 28.

Penicillin, crystalline, 750,000 bottles of 200,000 units each, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 191, November 29.

Perchlorethylene, 12,600 pounds, Army Ordnance Department (Watertown 72, Mass.) invitation 45, December 7.

Plaster of Paris, orthopedic and dental modeling, 15,000 pounds, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 193, November 29.

Protective plastic, sprayable, strippable, 500 gallons, Navy Department (Aviation Supply Office, Philadelphia 11), invitation 9437, December 9.

Rubber cement, 713 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation 9432, December 9.

Salt, iodized, 90,000 pounds, Quartermaster Purchasing Office (New York 3) invitation 292, November 22.

Silver nitrate solution, 4,800 packages, 24 ampuls each, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 202, December 1.

Sodium chlorite, 10,000 pounds, Army Engineers Corps (Washington 25) invitation CIVENG-38, November 22.

Spices, ground, allspice, 600 pounds; mustard, 1,800 pounds; nutmeg, 600 pounds; cayenne pepper, 600 pounds; cloves, 300 pounds, and whole, 300 pounds; bay leaves, whole, 300 pounds, Quartermaster Purchasing Office (New York 3) invitation 303, November 23.

Steam cleaning compound, 10,000 pounds, Navy Purchasing Office (New York 3) invitation 5839, December 15.

Trichlorethylene, 109,200 pounds, Department of the Army (Detroit Arsenal, Center Line, Mich.) invitation DA-20-089-ORD-50-089-223, November 23.

Wax, floor, 425 gallons, Bureau of Federal Supply (Washington 25) invitation 5H-82778-R, November 28; 4,640 pounds, Bureau of Federal Supply (New York 13) invitation NY-W-18706, November 22.

Wool fat, hydrous, 2,136 pounds, Veterans Administration (Washington 25) invitation A-33, November 28.

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The Fragrance Foundation has appointed four committees to direct its various activities. Chairmen of the committees are:—Planning, S. L. Mayham, Toilet Goods Association; finance, J. I. Poses, D'orsay Sales Company; trade relations, Jean Despres, Coty, Inc., and membership, Benson Storfer, Parfums Corday, Inc.

Obituaries

—*Continued from page 4*

at his home in the Ritz Tower hotel, New York. He was sixty-four years old.

Mr. DeLand entered the steel container manufacturing industry as a youth. He became superintendent of the Fairport, N. Y., plant of American Can Company at the age of twenty-three. He later became division superintendent and in 1926 was transferred to New York as division manager in charge of manufacture. He was named assistant to the vice-president early this year.

Charles H. Ellingwood

Charles H. Ellingwood, retired chairman of the board of directors of Wolf's Head Oil Refining Company, New York, and Oil City, Pa., died November 14 at his home in Montclair, N. J. He was eighty-two years old. Mr. Ellingwood founded the Wolverine Lubricant Company in 1911 and remained as president when it became the Wolverine Empire Refining Company in 1929. In 1938, when it was succeeded by the present company, Mr. Ellingham became chairman of the board of directors.

Louis H. Hall

Louis H. Hall, vice-president, a director and a member of the executive committee of the International Salt Company, died November 17 at his home at 32 Washington Square West, New York. He was seventy-four years old. Mr. Hall was also a partner in the law firm of Putney, Twombly, Hall & Skidmore; general counsel and director of Botany Mills, Inc., and a director of Bishop, McCormick & Bishop and of J. F. Douglas & Co.

James R. Hobbins

James R. Hobbins, president of the Anaconda Copper Mining Company, died of a heart attack in Butte, Mont., November 14. He was in Butte with other company officials on a routine inspection tour and was stricken while at luncheon. Mr. Hobbins joined Anaconda as assistant to the president in 1922. He became vice-president and director the following year and was named president in 1940.

He was also president of the Butte Water Company, the Andes Copper Mining Company, the Chile Copper Company and the Chile Exploration Company. He was a vice-president and director of the Butte, Anaconda & Pacific Railway Company and a director of the National City Bank of New York, the Mines Investment Corporation, the Copper Export Association, the American Brass Company, the Anaconda Sales Company, the International Smelting & Refining Company and the Anaconda Wire and Cable Company.

Dr. Edward G. Merrill

Dr. Edward G. Merrill, assistant vice-president of the Rexall Drug Company, died November 14 at Flower Fifth Avenue hospital, New York, while on a business trip. He was sixty-seven years old. Dr. Merrill joined the Rexall company as chief chemist thirty years ago. He later served as director of research and development until he became assistant vice-president about ten years ago.

Dr. Merrill was a member of the American Pharmaceutical Manufacturers Association, the National Association of Insecticide and Disinfectant Manufacturers, the Toilet Goods Association, the Technical Association of the Pulp and Paper Industry, the American Institute of Chemists, the American Institute of Chemical Engineering and other medical, chemical and scientific organizations.

Robert Bye, retired member of the accounting department of the Cities Service Oil Company, New York, died November 13 at his home in Cranford, N. J. He had been with Cities Service twenty-six years when he retired in 1944. He was eighty years old.

Charles G. Byrne, head of the sales department of Chemical & Combustion Corporation, New York, died recently at Veterans Administration Hospital, that city. He was forty-five years old.

Leon Cohn, president of Lee Products, Inc., chemical manufacturer and distributor, died November 15 at his home in Philadelphia.

Miss Jeanette Hamill, purchasing agent of the Arabol Manufacturing Company, adhesives maker, New York, died November 11 in Polyclinic hospital, New York. She had been purchasing agent of the company for twelve years.

Adolph Lowy, secretary and treasurer of Kem Laboratories, New York, died recently. He was seventy-one years old. Mr. Lowy had been associated with the laboratories since 1934.

Foulton Thompson died November 13 of injuries he received in a blast at the Barrett plant of Allied Chemical & Dye Corporation, Philadelphia. He was thirty-eight years old.

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Current Prices

—Continued from page 33

Zinc laurate, bbls.	lb.	.45 -	.46
Linoleate, solid, 9½%, bbls.	lb.	.42½-	—
Metal, slabs, E. St. Louis	lb.	.09¾-	.10
Naphthenate, liquid, 8% Zn., frt. alld	lb.	.20¾-	—
10% Zn, dms., frt. alld	lb.	.25½-	—
Oleate, fused, bbls.	lb.	.36 -	—
Oxide, pigment, dom., acicular, bgs., c.l., ship't point, frt. alld	lb.	.11 -	—
l.c.l., works	lb.	.11¼-	—
American process, com'l, lead-free, bgs., c.l., ship't point, frt. alld	lb.	.11 -	—
l.c.l., works	lb.	.11¼-	—
leaded, 5%, bgs., c.l., ship't point, frt. alld	lb.	.11 -	—
l.c.l., works	lb.	.11¼-	—
35%, bgs., c.l., ship't point, frt. alld	lb.	.12 -	—
l.c.l., works	lb.	.12¼-	—
50%, bgs., c.l., ship't point, frt. alld	lb.	.12½-	—
l.c.l., works	lb.	.12¾-	—
French process, com'l, lead-free, bgs., c.l., ship't point, frt. alld	lb.	.13¼-	—
l.c.l., works	lb.	.13½-	—
green seal, bgs., c.l., ship't point, frt. alld	lb.	.12¾-	—
l.c.l., works	lb.	.13 -	—
red seal, bgs., c.l., ship't point, frt. alld	lb.	.12¼-	—
l.c.l., works	lb.	.12½-	—
white seal, bgs., c.l., ship't point, frt. alld	lb.	.13¼-	—
l.c.l., works	lb.	.13½-	—
USP, ctns., c.l., ship't point, frt. alld	lb.	.14¼-	—
l.c.l., same basis	lb.	.14½-	—
Zinc oxide Pac. coast prices, etc., higher; bbl. prices ¼c. higher than bgs.			
Phenolsulphonate, NF, grn., bbls., dms.	lb.	.33 -	.34
powd., bbls.	lb.	.36 -	.37
Resinate, fused, 1% Zn, dms., frt. alld	lb.	.20 -	—
precip., dms., frt. alld	lb	.22 -	—
Silicofluoride, bbls., works	lb.	.10 -	.10½
Zinc stearate, tech., USP, ctns., c.l.	lb.	.34 -	—
ton lots	lb.	.35 -	—
less ton lots	lb.	.36 -	—
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld	100 lbs.	4.55 -	—
l.c.l., same basis	100 lbs.	4.95 -	—
flake, 25½%, Zn, bgs., c.l., works	100 lbs.	4.50 -	—
l.c.l., works	100 lbs.	4.90 -	—
powd., 36% Zn., bgs., c.l., dlvd., same basis	100 lbs.	7.00 -	7.40
l.c.l., same basis	100 lbs.	7.40 -	7.75
Zinc sulphate in bbls. 40c. higher			
USP, gran., dms.	lb.	.22 -	.22½
Sulphide, pure, bgs., c.l., frt. alld	lb.	.13¼-	—
l.c.l., works	lb.	.13½-	—
Barium pigment, bgs., c.l., dlvd.	lb.	.08 -	—
l.c.l., works	lb.	.08¼-	—
Calcium, pigment, bgs., c.l., dlvd	lb.	.08 -	—
l.c.l., works	lb.	.08¼-	—
Luminescent pigment, frt. alld.	lb.	1.00 -	3.00
Magnesium pigment, bgs., c.l., dlvd.	lb.	.08 -	—
l.c.l., dlvd	lb.	.08¼-	—
Zinc sulphide and pigment, Pac. coast prices ¾c. higher; bbl. prices ¼c. higher than bgs.			
Yellow (see Yellow, zinc)			
Zinc-ammonium chloride, bgs., c.l., works	100 lbs.	7.00 -	—
l.c.l., bags, works	100 lbs.	7.40 -	—
Zinc-cadmium sulphide, fluorescent, cns., frt. alld	lb.	2.00 -	2.80
Zinc-calcium resinate, dms., c.l., works	lb.	.1180-	.1360
l.c.l., same basis	lb.	.1220-	.14
Zinc-formaldehyde sulphoxalate, basic, dms., works	lb.	.21¼-	—
normal, dms., works	lb.	.43 -	—
Zircon (see Zirconium silicate).			
Zirconium acetate, 13% sol. ZrO_2, bbls., works	lb.	.21¼-	—
Carbonate, basic, cake, bbls., works	lb.	.30½-	—
Hydride, cns., works	lb	7.00 -	—
Nitrate, dms., works	lb.	1.75 -	—
Oxide, 98½-99% white, grd., bbls. or bags, works	lb.	1.50 -	—
Zirconium oxide, lump, electric-fused, bgs., c.l., works	lb.	.44 -	—
5 tons, works	lb.	.44½-	—
1 ton or less, works	lb.	.45 -	.48
milled, electric-fused, bgs., c.l., works	lb.	.59 -	—
5 tons, works	lb.	.59½-	—
1 ton or less, works	lb.	.60 -	.63
Oxychloride, cryst., ctns., 5 tons, works	lb.	.29½-	—
Silicate, granular, bgs., c.l., works	lb.	.03¼-	.03¾
10 tons, works	lb.	.03½-	.04
5 tons, works	lb.	.04 -	—
1 ton or less, works	bl.	.04¼-	.04¾
milled, bgs., c.l., works	lb.	.04¾-	—
5 tons, works	lb.	.05¼-	—
1 ton or less works	lb	.05¾-	.06¾
refined, bgs., c.l., works	lb.	.11 -	—
works	lb.	.11 -	—
5 tons, works	lb.	.11½-	—
1 ton or less, works	lb.	.12 -	.16
Sulphate, cryst., ctns., c.l., works	lb.	.37½-	—
5 tons, works	lb.	.38 -	—
1 ton or less, works	lb.	.38¼ -	.39

Nitrogen Production

—Continued from page 3

increased much less, while cyanamide output has not increased at all.

"Postwar demand for nitrogenous fertilizer has been heavy," the report continued. "Import requirements have been particularly pressing in Europe and Japan because of the war damage to fertilizer plants and the need for increased food production. Sulphate of ammonia, the most popular nitrogenous fertilizer in Europe and the Far East, was the most sought after and the most scarce. Dollar shortage added to the difficulties of obtaining supplies from the Western Hemisphere, which alone had export surpluses.

"Consumption is nearly four times greater than prewar in the United Kingdom and Austria, and nearly three times greater in the United States and Norway. In India, also, although total consumption is still quite small, it is nearly three times as large as prewar. In the rest of the Far East, however, except in Japan, supplies are still below the prewar level. United States, Canadian, and Chilean exports are made against dollars, except for the United States shipment to Japan and South Korea of 250,000 tons of nitrogen supplied by army ordnance, which is not a commercial transaction.

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Demand for medicinal botanicals lagged last week. Trade was spotty and manufacturing consumers were in the market mainly for prompt requirements—when they were here at all. Marked strength in the price and spot position of ergot, mandrake and senega was reported; all sold at an advance. Jamaica ginger was lower under the influence of a recession in demand. Powdered papain was priced "all over the lot" by a various assortment of sellers but fairly firm undertones prevailed on goods sold on the basis of guaranteed strength. The market index was 2.4 points higher and at 187.6 compared with 199.8 prevailing a year ago after a rise of 1.1 points.

Black pepper went into a decline; under a lack of trading it seemed indisposed for the time being. On Friday, cables from India reported that a 30 percent ad valorem export tax had been established by the government. Spot prices rose promptly. Red peppers were "hot" and scarce.

Vanilla beans were strong. Lack of normal stocks was in part responsible but, in addition, the adverse forecasts on new crops was an influential factor in a further advance in prices. It was odd to discover that Bourbons and Mexicans at the higher prices set last week were still selling at close to price levels prevailing twelve years ago. The discouragement which excessive price declines had brought to curers caused substantial curtailment of crops. The now advancing prices may turn cultivation in the direction of normality.

Balsams

Fir—Price stability was the main note sounded in the market for this balsam last week. Demand did not change from its recent trend toward the purchase of requirements about as needed.

Peru—The local market had a steady quality, prices remaining at 85c. to 90c. per pound and demand being supported at levels about normal for the material. Stocks were fair in size.

Barks

Cascara Sagrada—Undertones continued to be very steady even though demand for quick deliveries was conservative throughout the past week. No tendency to shade prices existed on spot and local quotations were said to be in line with what was paid for this year's crop.

Black Haw—The market has become steadier and prices were felt probably to be at their lowest for the balance of this year and, probably, until another crop-year begins. The root bark was especially well maintained in local circles.

Sassafras—Spring requirements of this item will find a much better quality of bark available from all suppliers. Also, collections were said to have been fairly satisfactory, though some suppliers would have been glad to take on additional stocks of bark showing superior quality.

White Pine—Most of the current call was strictly seasonal in character last week and the movement contributed an added steadiness to spot quotations here, and in the country as well.

Beans

Vanilla—Prices on Bourbon beans were advanced to $3.50 to $4.25 per pound. Mexicans were at least $4.75 for whole and possibly as high as $5.50 with some dealers being totally without stock. Cuts became $4 to $4.25 and in light supply.

The present strong market was related to the fact that when prices did break some time ago, the decline went so far that production in all countries was discouraged. The fruit of that discouragement was the sharply adverse crop prospects for the next crop of beans, and the higher prices for goods that are currently available in whatever market.

The trade pointed out last week that vanilla today is priced near to levels that prevailed twelve years ago, in 1938. In January of that year, Bourbons were $3.35 to $3.75 and in December they were $4.40 to $4.50. Mexicans in January, 1938, stood at $4.40 to $4.75 and in December they were $4.75 to $5.25. It was further pointed out that vanilla is one of the very few products that is priced today at the quotations close to those prevailing twelve years ago.

A part of the present tight price and supply position may be traced to the substantial buying of beans last August, September and October. Also, to the fact that Europe, especially Germany, has returned to the world market as a substantial buyer.

Market Trends

Prices Advanced

Drugs

Ergot, 25c. per lb.
Mandrake root, 2c. per lb.
Senega root, 5c. per lb.

Other Articles

Anise, Star, 1c. per lb.
Mexican, ¼c. per lb.
Cassia, China, rolls, select, broken, ½c. per lb.
Mace, Siauw, 2c. per lb.
Mustard seed, English, yellow, 1c. per lb.
Nutmegs, East Indian, spot, 1c. per lb.
futures, 1c. per lb.
Pepper, spot, 8c. per lb.
Dec. arrival, 8c. per lb.
Dec. shipment, 7c. per lb.
white, 10c. per lb.
Rosemary leaves, Portuguese, 1c. per lb.
Sage, Dalmatian, 14c. per lb.
Vanilla beans, Bourbon, 25c. per lb.
Mexican, whole, 50c. per lb.
cuts, 50c. per lb.

Prices Reduced

Drugs

Ginger root, Jamaica, No. 1, 1c. per lb.
No. 2, 1c. per lb.
No. 3, 1c. per lb.
Papain, powdered, 25c. per lb.

Other Articles

Cardamom, decorticated, Guatemalan, 10c. per lb.
Green, Alleppey, 15c. per lb.
Celery seed, French, 2c. per lb.
Clove, Madagascar, ½c. per lb.
Coriander seed, Moroccan, ½c. per lb.
Cumin seed, Morocco, ½c. per lb.
Persian, ½c. per lb.
Syrian, ½c. per lb.
Laurel leaves, Portuguese, ½c. per lb.
Mace, West Indian, 1c. per lb.
Mustard seed, Calif., brown, 1c. per lb.
Montana, oriental, ¼c. per lb.
Oregano, Sicilian, 2c. per lb.
Pepper, red, Carolina longs, 2c. per lb.
Rosemary leaves, Spanish, ½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
187.6	185.2	185.4	199.8

(For Current Prices see Page 9)

Berries

Juniper—Demand was not very pressing last week, but the market remained comparatively steady when it came to sales to be made through regular dealers in botanicals. Some sharpshooters of prices did exist on the fringe of the market.

Prickly Ash—Few purchasers inquired for this item last week, but local quotations remained unchanged. Some said they might be slightly on the high side when compared with the prices at which new crop goods were bought by some collectors.

Flowers

Arnica—Demand was of the jobbing variety that rarely affects the basis price position of this material. No substantial amount of jobbing sales was reported last week, the larger consumers being apparently well supplied with reserves.

Chamomile—Takings of both Roman and Hungarian flowers made a fair total of spot business last week and transactions usually took place on the basis of 45c. per pound for the latter and 95c. for the former. Replacement costs were maintained.

Lavender — Reports concerning sales against the holiday needs of some manufacturers were said to have been of fair size and involving quantities that acted to the full support of the market.

Gums

Mastic—Trading has been small for some time and it showed no improvement during the past week. Stocks were ample to cover much more than the apparent needs or buyers at this time.

Myrrh—A seasonal gain in some sales was reported to the full support of prices prevailing over the past month. However, with the holiday season ahead, a slower trade should not surprise.

Sandarac — The market was exceptionally tight. Stocks have worked into strong hands and most sellers displayed substantial reserve in local transactions for the reason they cannot replace liberally at the origin at this time. Nor had they been able to buy readily for some time past.

Herbs and Leaves

Buchu—Prices for this material appeared to be solid and in line with re-

For Late Market Developments, See Page 4

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placement cost and the absence of competition between suppliers. Demand was not especially brisk last week but sufficient business was done fully to confirm the market.

Coltsfoot—Stocks were not overly abundant but seemed still to be sufficient to meet any expansion in consumers' needs. Undertones were firm in keeping with the replacement situation.

Laurel—Portuguese material was easier and more competitive at 12c. to 12½c. per pound without stirring up substantial activity. Greek leaves held without quotable change.

Lobelia—The market was as strong as ever; as high as ever; and still straining toward higher prices. Accomplishment of higher levels appeared to depend on how much more buying of major sort has to be done. Unsold stocks in whatever locale were very small.

Rosemary—Spanish leaves were fractionally lower at 7½c. to 8c. per pound while the Portuguese produce was off a fraction to 7c. to 7½c. French remained steady at 12c. to 12½c. but did not sell readily.

Sage—Dalmatian sage rose to the nominal quotation of 56c. per pound and was hard to get at any price because of small stocks. Quotations on other varieties were without change.

Stramonium—The market was steady enough but it lacked supporting demand of the sort that would be apt to bring about a higher level of quotations. Stocks appeared to be ample.

Witch Hazel—Holders of the moderate stocks available on spot and unsold in the country had very firm ideas with respect to prices, though during the past week demand failed of prominence. A liberal export business has been done in the item.

Miscellaneous

Balm of Gilead Buds—The market has become steadier and more in line with the ability of collectors to obtain a fair domestic supply at lower prices this year. Some look for a gain in sales since it was believed that some consumers have been out of the market for so long that replacement must become necessary in the not distant future.

Ergot—The spot market was in tight position and the situation abroad seemed to be one of considerable strength now that unsold stocks have become concentrated in strong hands. Local quotations at $3.25 per pound were purely nominal and always subject to confirmation. Manufacturing consumers were said to be rationing their supplies of derived products and to be conserving their reserves of ergot so successfully that many have been able to stay out of the replacement market.

Irish Moss—Immediate interest was moderate. Most recently received advices from the origins indicated well maintained prices, especially on merchandise of superior quality.

Papain—Prices appeared to be "all over the lot" according to one supplier of this merchandise. The range in quotations was wide, being $1.75 to $2.50 per pound, depending on seller and quality of goods offered in regular quarters. In outside hands, even lower quotations have been quoted without guarantee of the strength of the goods proposed for sale.

Roots

Aletris—Little pressure for this article was exerted by buyers during the past week. The market was quiet and rather competitive but quotations failed to undergo a change.

Blood—Some reports of better business were noted but in the main the article was a "drug" on the market and practically all sellers would be willing to entertain bids from responsible manufacturing consumers. Stocks seemed to be ample everywhere.

Galangal—No one is "giving" this root away these days. Holders realize that further imports from China will be delayed, if indeed they are made at all in the nearby future. Fortunately for sellers, consuming interest has continued relatively light.

Gentian—Some substantial business for import was done recently by agents of foreign shippers. Attempts to book further quantities at the prices then paid have failed, however, and the European suppliers have somewhat higher views at the present time. The local market remained very steady.

Hellebore—Those who want domestic green helebore root won't find country supplies more than moderate and will discover that local dealers have exceptionally strong ideas.

Mandrake—The spot market has been moved up to 45c. to 50c. per pound. This was the local response to purchases made

in the country by consumers who had also to pay a substantial advance over the last previous prices they had paid. It was said last week that a fair quantity of this root was being withheld from the market with the expectation that prices will be still higher before another crop collection begins in 1950.

Pink—More root than manufacturing consumers seem to require was available under price conditions entirely favorable for those who may require supplies additional to their present reserves. The market was dull and soft.

Rhubarb—Not very active at the moment, this root was still in virtually strong price position because holders have been forced to conserve their stocks. The future despatch of stocks from the China market posed a problem and an uncertainty that made for well maintained spot prices that also had a tendency to rise.

Senega—The market moved another notch higher, ending last week on the basis of $1.60 to $1.65 per pound which position reflected the end of weakness at the origin and the general strengthening of all angles of the market as pertaining to sales. Little or no competition for business prevailed last week.

Star—Supplies at the origin were comparatively short and any substantial pressure on the part of manufacturing consumers could readily push spot quotations to a level higher than the current quotation at $1.65 to $1.75 per pound. The collection area for this root has decreased substantially.

Valerian—The most recent advices received from Belgium showed no weakening of shippers' price views. Consequently, spot quotations were on the firm side regardless of the not very substantial call from consumers.

Seeds

Anise—Chinese star anise was advanced to 16c. to 16½c. per pound and Mexican material was also higher at 14¾c. to 15c.—both movements reflecting higher replacement costs and fewer offerings.

Cardamom—Bleached seed held strong but unchanged. Decorticated material from Guatemala was considerably lower at $2.70 to $2.75 per pound and green seed from Alleppey was down to $2.20 to $2.25.

Celery—French seed was easier and lower at 25c. to 26c. per pound on the greater availability of the material. Indian seed remained generally steady at 21c. to 21½c. per pound.

Coriander—Seed from Morocco was shaded to the basis of 9½c. to 10c. per pound on the spot last week. Argentine seed remained steady but was available mainly in the to-arrive position.

Cumin—Moroccan seed was reduced to the basis of 16½c. to 17c. per pound and both Persian and Syrian seed could also be bought at that price. The trend of prices has been downward of late.

Fennel—Indian seed for later arrival was offered here at 11c. to 11½c. per pound. Argentine and French seed were both higher than the above minimum and moved but slowly at the best.

Mustard—California brown seed at the source was down to 7½c. to 8c. per pound. Montana oriental was also off a fraction to 7¼c. to 7½c., at the source. English yellow on spot was more expensive at 12½c. to 13c.

Psyllium—Had French shippers been willing to take more business at the price previously quoted, considerable business for import could have been done for the account of local importers. However, responses from abroad merely advanced prices and sellers there apparently had the strength to support their views.

Spices

Cassia—Price activity receded last week and except for a fractional advance to 12c. to 12½c. per pound for select but broken China rolls, the schedule of prices remained unchanged.

Clove—Spot quotations on Madagascar spice were lower at 19c. to 19½c. per pound but very little unsold stock remained in this market. Zanzibar spice in shipment position was held at 17¾c. per pound, while for spot goods, 20c. was asked.

Ginger—Jamaican root was priced slightly lower last week. No. 1 was down to 50c. to 51c. per pound; No. 2, 47c. to 48c., and No. 3, 46c. to 47c. Nothing was available from the source. African root remained at 43c. to 44c. per pound on spot and the London price view on limited quantities still unsold was firm.

Mace—Siauw was slightly higher at 92c. to 95c. per pound but the prices on West Indian material were shaded to 83c. to 84c.

Nutmegs—The sole change in price came on East Indian nutmegs. Spots were raised to 39c. to 40c. per pound and futures were up to 38c. to 39c. West Indians held at 28c. to 29c., spot.

Pepper—Spot and future prices on black pepper declined when trading withered and the market turned temporarily dull. Spot goods about midweek were quoted at $1.22 to $1.23 per pound. December arrival was $1.16 to $1.18. December shipment was off to $1.09 to $1.10. And December-January shipment became $1.06 to $1.07. On the other hand, white pepper was no easier and actually sold at the higher level of $2.40 to $2.45. Red peppers were more active and stocks were difficult to obtain.

Late last week, cables from India reported that the government had imposed a 30 percent ad valorem tax on pepper. The spot market stiffened promptly. Spot became $1.30 to $1.31 per pound. Futures were not quoted.

Importations of pepper in 1949 in comparison with 1948 were as follows:—

	Tons	
	1949	1948
January	1.089	1.288
February	502	1.583
March	551	1.213
April	1.607	920
May	1.352	1.218
June	952	1.330
July	1.098	559
August	1.037	443
September	788	236
October	1.071	1.171
November	....	580
December	....	398

Lester, Hankins, Silver Form Management Company

John A. Silver, former executive vice-president of the F. J. Stokes Machine Company in charge of packaging, pharmaceutical and special processing equipment, Bernard Lester and Frank W. Hankins have formed the management engineering firm of Lester, Hankins & Silver. Specializing in the management, distribution and sales problems of manufacturers and distributors of machinery, equipment and technical products, the company has offices at 1605 Race street, Philadelphia, and 140 Cedar street, New York.

Mr. Lester was connected for many years with the Westinghouse Electric Corporation, where he was assistant manager of industrial sales. Mr. Hankins has been chief engineer of the Columbian Rope Corporation and manager of the marketing department of the Worthington Pump & Machinery Company. For the last decade he has headed the marketing counselling firms of Frank W. Hankins and Hankins Borie & Associates.

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Essential Oils, Other Aromatics

Spot prices on essential oils were mainly well stabilized last week. In aromatic chemicals, signs of probable advances developed in anethol citral, citronellol, geraniol and ionones. The higher cost of lemongrass and citronella was expected to force a rise in the quotations on derived products, movements avoided thus far by reason of the fact that producers have been working on raw materials bought before the rise. The higher prices on spot sandalwood and peppermint oils were reflected in the market index when it rose 1.3 points to 104.3, which compared with 100.5 prevailing a year ago when it dropped 0.4 point.

Business in the market has become rather spotty. The recession of requirements connected with the production of holiday merchandise was being felt, although requirements of such raw materials were still a part of local transaction. However, most suppliers said that business was "not too bad" and, in some instances, was said actually to be ahead of that a month ago. At the same time, it was admitted that inquiries, while numerous, involved smaller quantities in many instances.

Information confirmed the expectation of a 50 percent crop of bergamot. Sellers of both anise and cassia showed a reserve that was in keeping with the chaos in China, from which country offerings have been either lacking or few and far between.

Heavy floods in Guatemala and Haiti have cut the prospect of citronella oil from those countries. And the effect of war in Indonesia remained even though something called "peace" now prevails between the Indonesian and the Dutch and hope for a return to normal business relations has risen. Prospects for normal stocks of geranium were called poor. Limited stocks of patchouli existed at the origins where high prices prevailed. Unrest in the Malay states has caused a decrease in production. A crop failure in Spanish pennyroyal oil was reported. Prices on ylang ylang oil were said still to be rising at the source.

Market Trends

Prices Advanced

Peppermint oil, natural, 25c. per lb.
redistilled, 25c. per lb.
Sandalwood oil, 25c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
104.3	103.0	101.2	100.5

(For Current Prices see Page 9)

Essential Oils

Abies Siberica—Stocks continued to shrink because of good demand and difficulty in securing shipments of needed goods from the origin. The market on spot was tight in all respects and any quotation obtained locally would be subject to confirmation. Some quarters reported total absence of supplies. The range was $4 to $4.60 per pound where goods were in hand.

Amyris—The leading supplier of this material reported a steady market with respect to prices and a normal request so far as buyers were concerned. Fair stocks in hand protected the future requirements of all manufacturing consumers.

Anise—Information reaching some quarters on spot was to the effect that no more oil was available in Hong Kong. It was also said that acquisitions by manufacturing consumers have reduced the stocks available on the spot and the reserve was said to have decreased to a point where each transaction tended to advance the minimum spot prices still further. The prediction of a $2 market ultimately was not restricted to only one dealer. On the other hand, one quarter said that the material was getting scarce but that buyers were not being frightened; they believe that goods will be available and, hence, are not disposed to stock heavily at present, especially since they do not want to tie up too much money in the article.

Bergamot—Dealers in this market confirmed the recent statements of last year's short crop in Italy, saying the cause was, in part at least, the presence of more than normal quantities of snow which held the crop back about six weeks. Also, the summer drought in Italy resulted in much smaller fruit and, possibly, reduced the oil content of the peel. One quarter said that spot stocks were substantial and, in its opinion, sufficient. Furthermore, an easing of Italian prices was noted in that direction.

Bois de Rose—Local opinion in numerous instances was that prices on this article would probably rise in the not distant future. The position in Brazil was one of considerable strength and on spot there was certainly an absence of weakness last week. Demand was fair enough in size also to be a price-supporting item.

Cassia—The position of this oil was almost precisely that in anise; both come from China and both are influenced by what is now happening at the source. Very little oil is available on spot, that being a substantial change from what had seemed recently to be a position of over supply. Some said that the source was offering nothing; others indicated that offerings were still few and far between. The market at all points was definitely strong and the upward trend of prices was expected to continue. However, it could be that recognization by England of the Red government that now controls Canton might work in the direction of offerings being again made from Hong Kong.

Citronella—The market on spot was very steady; some called it definitely firm. However, most suppliers indicated that demand was not too brisk and that has had a tempering effect on those who recently were disposed to a rise in prices. There still seemed to be some doubt that the recognization of the Indonesian Republic by Holland would mean an early resumption of normal exports of Javanese products. Heavy floods in Guatemala and Haiti have had an adverse effect on the prospects for the supply of those materials. Also, dry weather in Ceylon has not been a favorable sign for the future of supplies.

Clove—The spot market remained in well stabilized position. In that aspect then reflected the steadier and more stable position recently acquired by Zanzibar buds, the price of which for shipment has not changed materially in the last fortnight.

Coriander—Demand expanded a trifle, according to some suppliers and contributed to the development of a somewhat firmer spot market without bringing an actual change in local quotations.

Cubeb—Nothing at this times suggests an early change in the spot quotations on this oil. The more or less stable price on raw material has been a contributing cause that, in some degree, countered against the absence of more than jobbing demand.

Cumin—Stability was the rule on spot last week. Prices were well stabilized and demand was maintained at its recently conservative volume. The general undertone of the market was firm.

Erigeron—Production was conservative this year but, so far as local suppliers were concerned, it was believed to be more than sufficient to cope with the probable requirements of the manufacturing consumers of this material.

Eucalyptus—The market remained very steady in all respects. Price ranges on all varieties of the material remained wide because of the differences in sellers' minimum price views. By a recent decision of a United States customs and patent appeals court, the duty as now prescribed in the tariff will be exactly that; classifying some imports as a chemical compound not especially provided for was declared to have been an error of the United States customs. Mere rectification of oil only to the degree of changing the proportions of its constituents was held not to destroy the identity of the original article.

Geranium—Prices were reported rising at the origins where very little oil was said to be available in the case of Bourbon material. Floods and hurricanes plus low prices discouraged production and it was believed that a year and a half will be required to bring about a recovery in output. Most minimum spot prices were subject to confirmation.

Ginger—Some of the recent declines in spot prices on raw material have proven to be totally without effect on essential oil dealers' price views on distilled ginger oil. The oil now in hand was or will be made from root showing a very high cost and under the current volume of demand it will require considerable time to work off such high cost oil.

Juniper—Berry oil was steady in price and stood at levels prevailing long before the raw material got to its at present very

For Late Market Developments, See Page 4

low price position. Demand for oil was thoroughly routine.

Lavandin — Numerous sellers seemed disposed to take a firmer view on prices and to look for the development of higher levels on spot and at the origin. Demand has been a supporting item in making spot quotations more accurately reflect the cost to replace at the source. Stocks were not overly large on spot.

Lavender—The special demand caused by the production of goods for the holiday trade seemed to have decreased considerably but without bringing about any easing of the recently firmer spot position. Between now and the end of this year, demand was expected to be quite conservative in size but prices were expected to hold steady.

Lemon—Most of the local report on both imported and domestic oils was to the effect that the market was unchanged. Certainly so far as prices were concerned, they did lack any shift from the position held during the past several weeks. Demand was routine in character and consisted mainly of small needs.

Lemongrass — Conditions in primary markets supplying this item to this market changed little; they were still conditions that had been productive of exceptionally steady or even higher markets at the origins. On spot, quotations remained firm last week over the spread of $2.25 to $3 per pound.

Lime—Day-to-day calls for distilled oil were moderate in size but sufficient to work to the continued steadiness of local quotations. Stocks have been fairly well replenished; at least, the acute shortage that prevailed in spot goods a few weeks back no longer obtained. Replacement quotations were well maintained.

Mandarin—Local supply was called sufficient to provide goods to care for the reasonably distant needs of manufacturing consumers. However, the reserve certainly was not large and hardly more than sufficient to make for price stability under a demand that, currently, was reported to be distinctly conservative.

Mustard—The producer of this synthetic article has succeeded in maintaining complete price stability and reports last week indicated a very steady spot market that met moderate demands.

Nutmeg—Shifting of minimum prices on this oil seemed at an end. At least, leading distillers in this country counted the market as being firm to steady under the present consumer demand from food processors. Stocks protected future needs well.

Orange—Prices changed not at all and demand was little altered from the recently very steady jobbing requirements that developed with the close of the Summer season of larger needs. Competition in spot prices was prevented by prevailing replacement costs. Stocks were ample in all directions.

Patchouli—The fact that the Indonesian Republic is now recognized by Holland may lead to the ultimate restoration of normal trading in oil from the largest

—*Continued on page 78*

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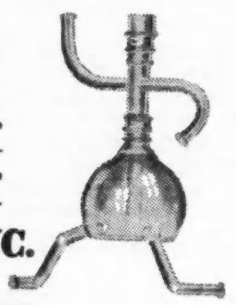

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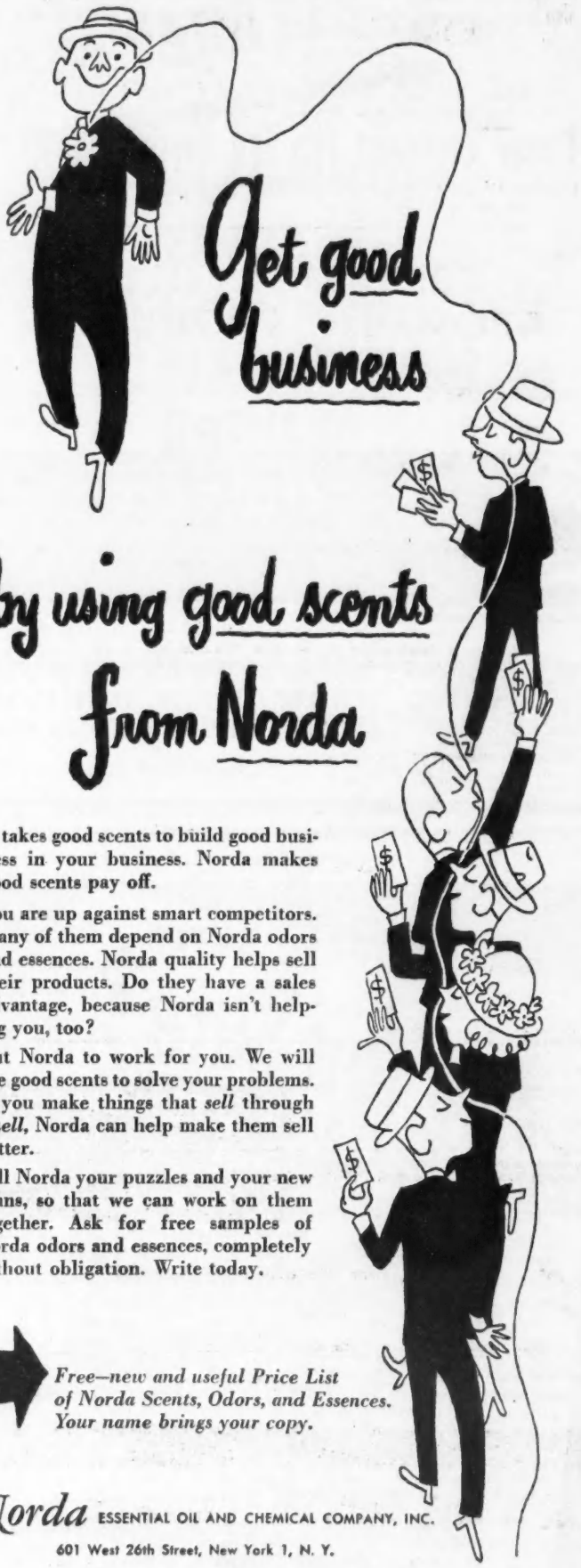

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Leather—Wetting agent in dressing, fat-liquoring, compositions, finishing, soaking, softening, tanning, and waterproofing compositions.

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Miscellaneous—Modifier of surface tension of liquids in various products and processes.

Wetting agent in cleaning, polishing, and waterproofing compositions, embalming fluids, ink removers, soldering fluxes, wallpaper removers, in making beer-glass coasters, and in various processes involving aqueous solutions, such as soaking, washing, impregnating, penetrating, wetting.

Paint, Varnish, and Lacquer—Wetting agent in lacquers, paints, and varnishes, and in pigment manufacture.

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Rubber—Wetting agent (Brit. 420812) in cements.

Soap—Wetting agent (Brit. 420812) in detergent compositions, textile soaps.

Textile—Wetting agent (Brit. 420812) in bleaching, boiling-off, bowking, carbonizing, degumming, dyeing, fulling, kier-boiling, and mercerizing baths; coating, degreasing, oiling, scouring, sizing, soaking, spinning, washing, waterproofing, and waxing compositions; printing pastes.

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Cleansing Preparations—Improvers of cleansing, detergent, and rinsing properties in various compositions.

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Nonionic compounds compatible with anionic and cationic detergents.

Solubilizing agents.

Emulsifying agents in dry-cleaning soaps (claimed to reduce hand spotting time by one-half) and wet-cleaning compounds.

Dry-Cleaning—Emulsifying agents and detergents (used alone) in wet processes.

Spotting agents in cleaning operations (used in dilute aqueous solution, sometimes with a small amount of acetic acid to depress bleeding of fugitive dyes).

Laundering—Emulsifying agents and detergents in washing operations.

Nonionic emulsifying agents and detergents, chemically stable, claimed less irritating to the skin than ionic types of detergents, do not form curds or scum in hard water, including seawater, or in alkaline, acid, and salt solutions, drain readily, effective in cold or hot water, essentially 100 percent active, harmless to delicate fabrics, highly concentrated detergent power, miscible with water in all proportions and giving clear solutions in hard or seawater, neutral in pH, prevent formation of excessive suds, remain in solution where needed to lift soil from the surface and prevent its redeposition, rinse readily.

Paper—Cleansing agent for wool felts.

Textile—Boiling-off, desizing, kier-boiling, and scouring agents for textile fibers (especially cotton, wool, and rayon).

Protective Coatings Materials

Metallic lead weakened again last week, and the oxides and silicate were moved down accordingly. At the same time, reductions were noted for imported casein and orange shellac. Notwithstanding these lowerings, the price index held its ground, continuing at 201.7.

A combination of continued dull demand and further foreign offerings resulted in an additional one-quarter-cent drop in pig lead during the period. Pigment makers moved immediately, effecting similar cuts in red lead, litharge, mineral orange and lead silicate. No action was taken on dry white lead, basic silicate white lead and lead sulphate.

Despite the week's falling off in metallic lead, chrome colors, still in excellent demand, remained firm. Call for both natural and processed grades of earth colors was good. Supplies of these materials were ample all around, and prices were steady. Interest in zinc oxide remained strong. Stocks were adequate, notwithstanding the strike at plants of one maker.

Although demand was said to be fair, New York prices on orange shellac were off one cent to 3 cents per pound. Dealers inventories of superfine were reported slightly better, but lemon grades continued as scarce as ever. The market for natural resins remained muddled, and few, if any, public quotations were available.

Sebacates, in excellent call, held steady. Asbestos was similarly unchanged. Both shorts and long were still far short of consuming requirements. Imported casein skidded another one-half cent per pound in an inactive market. Domestic grades were unchanged. Unconfirmed reports from Buenos Aires indicated that Spain, Italy, Japan and Germany were putting out feelers for large quantities of Argentine casein. Bone glue, particularly 40 and 65 jellygrams, were well short of demand. Listings were maintained.

Market Trends

Prices Advanced

Rosin, gum, Savannah, E, G, H, I, K, M, N, 5c. per 100 lbs.
F, 4c. per 100 lbs.
WG, 6c. per 100 lbs.
WW, X, 15c. per 100 lbs.
Turpentine, gum, Savannah, ½c. per gal.

Prices Reduced

Casein, imp., acid-precip., ½c. per lb.
Lead, red, 95%, ¼c. per lb.
97%, ¼c. per lb.
98%, ¼c. per lb.
Silicate, ½c. to ¼c. per lb.
Litharge, ¼c. per lb.
Orange mineral, ¼c. per lb.
Shellac, lemon, No. 1, 1c. per lb.
No. 2, 1c. per lb.
Superfine, 3c. per lb.
TN, 3c. per lb.

Comparative Price Indexes

(100=August 1. 1914)

Last week	Prev. week	Last month	Last year
201.7	201.7	201.7	224.3

(*For Current Prices see Page 9*)

Prime Pigments

Aluminum Paste, Powder—The Bureau of Census reported September shipments of aluminum powder, flake and paste at 1,490,000 pounds, compared with 1,380,000 pounds shipped in August and 1,628,000 pounds in September, 1948. Shipments during the first nine months of this year aggregated 10,760,000 pounds, as opposed to 12,285,000 pounds shipped during the first three quarter of 1948.

Blue, Ultramarine—Importations during the period totaled 150 casks of ultramarine blue from Hull.

Chrome Colors — Notwithstanding the week's further drop in pig lead, quotations in this section were maintained during the past seven days. Demand was reported at good levels. Supplies were plentiful all around. Following are current listings:—CP greens, 37c. to 47¾c.; reduced greens, 13c. to 29c.; molybdate orange, 44c.; CP orange, 32c., and CP yellow, 32c. per pound.

Earth Colors—Both natural and processed grades moved in good volume during the week. Synthetic iron oxides were similarly in active demand. The supply position remained unchanged, continuing ample all along the line. There were no price changes anywhere in this section, and none were expected within the immediate future. Imported were 2 bags of iron oxide from London and 34 casks of earth colors from Amsterdam.

Lead, Metallic Paste — Despite the week's ¼c. decline in pig lead, prices of this pigment material held firm at 28c. to 29½c. per pound.

Lead Pigments — Continued dull demand and further foreign offerings below domestic prices produced another ¼c. decline in pig lead quotations last week, the metal dropping to 12¼c. per pound, New York basis, and to 12.30c. per pound, East St. Louis.

Pigment manufacturers moved immediately, effecting similar cuts in red lead, litharge, mineral orange and lead silicate. Quotations on dry white lead, basic silicate white lead and lead sulphate were maintained. Following are pigment quotations of effected materials: — Red lead, 95 percent, 15¼c. to 16¼c.; red lead, 97 percent, 15½c. to 16½c.; red lead, 98 percent, 15¾c. to 16¾c.; litharge, 14¼c. to 15¼c.; mineral orange, l.c.l., 18.60c., and lead silicate, l.c.l., 14.70c. to 15.25c. per pound.

Lithopone — The Bureau of Mines reported lithopone sales in 1948 at 140,033 short tons, which compares with 165,024 tons in 1947, 147,001 tons in 1946 and 136,-161 tons in 1945. The value of these sales were $16,135,976, $17,382,592, $11,840,596 and $10,645,316, respectively. Paints, enamels and lacquers took the major share of last year's output, with 104,441 short tons.

Mercuric Oxides—According to the recently-released 1947 Census of Manufactures, shipments of yellow that year totaled 225 short tons, valued at $402,000 f.o.b. plant. Total production of yellow oxide amounted to 242 short tons. Shipments of red oxide, including regular and battery grades, were reported at 16 short tons, valued at $75,000 f.o.b. plant. Total production of red during the year was set at 177 short tons.

Red, Organic Toners — Call for lithol, para and toluidin toners remained excellent during the past week. Because of the steel strike there were said to be minor delays on deliveries of some types, but, in the main, movements were free-flowing. Producers further expected that this situation would soon be righted with the resumption of coaltar intermediate production. Prices were firm all around.

Zinc Oxide—The ¼c. rise in the metal, reported during the previous week, did not become uniform throughout the market during the past seven days, with at least one seller holding the line at the lower quotation. As a result, a split price prevailed at Friday's close, slabs ranging from 9¾c. to 10c. per pound, East St. Louis. Call for oxides continued strong. Stocks were ample, nothwithstanding the strike at plants of one maker. Imported were 2,000 barrels of zinc oxide from Bilbao.

Fillers and Extenders

Barytes—The Bureau of Mines reported 1948 production of barite at 777,841 short tons, which compares with 884,219 tons in 1947, 725,223 tons in 1946 and 692,330 tons in 1945.

Calcium Carbonate—Importations during the period totaled 1,600 bags of whiting from Antwerp. The market was otherwise without feature.

Clay—Arrivals totaled 40 cases of common clay from Bremen and 523 tons of China clay from Avonmouth.

Mica—Imports during the week were reported at 3,100 cases of mica from Rio de Janeiro, Calcutta, Madras, Durban and London.

Natural Resins

The New York market remained unchanged last week. On the basis of private sales made during the period, it was clear that prices continued their downward trend. However, because of the lack of stabilization dealers refrained from making their quotations public. It was believed, nevertheless, that the market would settle down by the end of next month, at which time listings would probably firm up at about 15 percent below pre-devaluation levels. Importations last week totaled 1,126 bags of copal gum from Manila, Antwerp and Matadi.

Shellac—Orange lacs dropped another 1c. to 3c. per pound in New York last week. The Calcutta market was a little easier, with few, if any, bids there from American importers. Demand in this country held fair. Stocks of superfine here were reported a little improved,

For Late Market Developments, See Page 4

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though lemons No. 1 and No. 2 remained as scarce as ever. However, it was known that there were considerable quantities of devalued shellac enroute from India, and the trade looked for more plentiful supplies next month. The week's price action included 1c. declines in lemon No. 1 and lemon No. 2 and 3c. cuts in superfine and TN shellac. Bleached grades held steady. Arrivals during the period totaled 50 bags of buttonlac, 4,900 bags of seedlac, 50 cases and 1,608 cases of shellac from Calcutta, Bangkok and Gothenburg. Following are current market listings:—Bleached, bonedry, 61½c. to 64c.; bleached, refined, 71½c. to 74c.; lemon No. 1, 58c. to 59c.; lemon No. 2, 56c. to 57c.; superfine, 53c. to 54c., and TN, 50c. to 51c. per pound.

Lacquer Materials

Sebacates — Buying interest continued excellent for these plasticizers last week. Stocks were reported adequate. Prices were unchanged, as follows: — Dibenzyl, 65c. to 67c.; dibutoxyethyl, 54c. to 56c.; dibutyl, 49½c. to 51½c.; dicapryl, 53c. to 55c.; dihexyl, 41c. to 43c., and dimethyl, 68c. to 70c. per pound, f.o.b. works.

Miscellaneous Materials

Asbestos — Importations during the period totaled 30,794 bags of asbestos fiber from Leningrad. The Canadian situation remained unchanged, longs practically unobtainable and shorts scarce. Demand for both types remained heavy. Prices were unchanged.

Casein—Imported fell off another ½c. per pound in New York last week, as demand continued light. In the Argentine, there were rumors that Spain, Japan and Italy were putting out feelers for large quantities. It was also believed that Germany was reentering the picture, with a need for a huge tonnage of Argentine casein. Furthermore, many Argentine sellers were convinced that American mills would resume activity in December for shipments in early 1950.

Following are current market quotations:—Imported, 18¾c. to 19c.; domestic, standard, 23c. to 23½c., and domestic, premium, 23c. to 24c. per pound. Arrivals last week totaled 15,880 bags of casein from Buenos Aires.

Commodity Credit Corporation for the week ended purchased 2,816,500 pounds of spray process skimmed milk powder and 1,257,258 pounds of roller process. Government purchases of milk powder to date this year have aggregated 389,437,649 pounds, compared with 119,705,352 pounds for the corresponding period in 1948.

Glue — Demand for bone grades remained heavy last week, and production, particularly on 40 and 65 jellygrams, continued to lag behind consuming requirements. Quotations were steady for most grades, although 40 and 65 jellygrams were said to be exhibiting a strong overtone. Imports during the period totaled 461 bags of bones from Rio Grande, Santos and Buenos Aires. Following are current bone glue listings:—40 jellygrams, 17c.; 65 jellygrams, 18½c.; 80 jellygrams, 20c.; 110 jellygrams, 21c.; 130 jellygrams,

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Benzol	Lacquer Diluent	Ethyl Alcohol
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22c., and over 150 jellygrams, 24c. per pound.

Gypsum — Importations during the period under review totaled 24,608 tons of crude gypsum from Dingwall and Hantsport and 268 bags from Liverpool. The market was otherwise without feature.

Naval Stores

The Bureau of Census, according to the recently-released 1947 Census of Manufactures, reported shipments of gum turpentine in that year at 251,043 barrels, valued at $8,582,000. Output amounted to 253,362 barrels. Of the 696,329 drums of gum rosin produced in 1947, 680,596 drums, valued at $28,939,000, were shipped.

Hardwood charcoal shipments aggregated 373,362,654 pounds, valued at $8,487,000. Production that year totaled 375,166,840 pounds. Shipments of destructively-distilled wood turpentine totaled 181,743 gallons, valued at $140,000. Production amounted to 213,069 gallons. Shipments of steam and solvent-distilled wood turpentine were reported at 8,372,361 gallons, valued at $6,357,000. Output aggregated 9,511,595 gallons. These wood turpentine figures do not include pinene reported as such and sulphate wood turpentine.

Shipments of destructively-distilled pine oil totaled 33,784,114 pounds, valued at $3,348,000. Output was reported at 39,318,391 pounds. Exclusive of sulphate, wood rosin shipments aggregated 936,572,000 drums, valued at $35,356,000. Production for the year was 1,163,676 drums. Shipments of pinetar and pinetar oil in 1947 totaled 5,376,485 gallons, valued at $1,723,000. Output that year was 5,496,900 gallons. Softwood charcoal shipments were 50,838,217 pounds, valued at $644,000, as against the year's production of 47,751,000 pounds.

Pine Gum—Prices received by producers for crude pine gum delivered to processing plants during the week ended November 12 averaged $20.42 per standard barrel of 435 pounds for gum purchased outright and $20.66 for gum processed for the Commodity Credit Corporation loan, according to the Department of Agriculture. The weighted average price paid for all gum was $20.48 per barrel as compared with $20.88 for the previous week.

The 25 reporting plants received 23,479 standard barrels of commercial gum and 7,810 barrels of loan gum, a total of 31,289 barrels of 1,252 barrels per plant as compared with 1,001 barrels at the same plants a week ago.

The estimated turpentine contents of the gum were 9.21 gallons for loan gum, 9.17 gallons for commercial gum, or an average of 9.18 gallons. Rosin contents were 296.0 pounds for loan, 295.7 commercial, or an average of 295.8.

The percent of gum by grades was:—WW, loan 4, commercial 7, average 7; WG, loan 12, commercial 11, average 11; N, loan 19, commercial 35, average 31; M, loan 44, commercial 27, average 31; K and below, loan 21, commercial 20, average 20.

The record of the gum naval stores markets over the week ended November 18 was as follows:—

Gum Rosin

	Price per 100 lbs.						
	Savannah Exchange (Low of range)					New York c.l., l.c.l., f.o.b. ex N. Y. whse.	
	Mon.	Tues.	Wed.	Thurs.	Fri.	Friday	
B	$5.75	$5.75	$5.75	$5.75	$5.75	$7.25	$8.00
D	6.00	6.00	6.00	6.00	6.00	7.25	8.00
E	6.26	6.30	6.30	6.30	6.31	7.55	8.30
F	6.50	6.56	6.56	6.56	6.56	7.55	8.30
G	6.50	6.56	6.56	6.56	6.59	7.55	8.30
H	6.50	6.56	6.56	6.56	6.59	7.55	8.30
I	6.50	6.56	6.56	6.56	6.59	7.55	8.30
K	6.50	6.56	6.56	6.56	6.59	7.55	8.30
M	6.50	6.56	6.57	6.57	6.59	7.55	8.30
N	6.50	6.56	6.57	6.57	6.59	7.55	8.30
WG	6.50	6.56	6.60	6.60	6.60	7.55	8.30
WW	6.81	6.81	6.89	6.89	6.89	7.80	8.55
X	6.81	6.81	6.89	6.89	6.89	7.80	8.55
	Drums						
Sales	200	740	400		1,027		
Receipts	362	580	64	143	173		
Shipments			4				
Stocks	30,856	31,436	31,496	31,639	31,812		

Gum Turpentine

	Savannah Exchange—Bulk					New York (ret. dms.) tanks l.c.l. f.o.b. ex N.Y. whse. (7 lbs.)
	Mon.	Tues.	Wed.	Thurs.	Fri.	Friday
Per gal	.38¼	.38½	.38½	.38¾	.39	.47½ .56
Sales, bbls.	...	160	...	400	160	
Receipts, bbls.	380	123	84	18	36	
Shipments, bbls.	144	...	135	142	194	
Stocks, bbls.	12,910	13,033	12,982	12,858	12,700	

New York Paint Club Christmas Party Dec. 8

The New York Paint, Varnish and Lacquer Association will hold its fifteenth annual Christmas party at the Waldorf-Astoria hotel on December 8. Dan D. Downes, Brown Oil & Chemical Company, is chairman of the program committee for the event.

Paint Credit Association Marks 25th Anniversary

The Paint and Allied Industries Credit Association of New York recently celebrated its twenty-fifth anniversary with a dinner dance at the Statler hotel. Approximately 125 guests were present, including Mortimer J. Davis, executive manager and secretary of the New York Credit Men's Association; Ephraim J. Faber, executive secretary of the Paint Dealers Association of New York, and Sidney Beyer, executive secretary of the Brooklyn Paint and Wallpaper Dealers Association.

Trade Briefs

U. S. Plastics Products Corporation, Metuchen, N. J., has elected Thomas B. Wilson chairman of its board of directors.

General Paint Corporation has elected Edward H. Heller to its board of directors. Mr. Heller is a partner in Schwabacher & Co.

Binks Manufacturing Company, Chicago, will offer a special one week course on porcelain enamel spray finishing, beginning February 6.

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U.S. Revenue Returns Increased in September

Collections of internal revenue in the United States during September totaled $4,092,233,725.47, as compared with $3,918,062,650.33 in the corresponding month of last year, according to the Bureau of Internal Revenue of the Treasury Department. Among the collections reported by the bureau were the following:—

	September 1949	September 1948
Coconut and other vegetable oils processed	$1,504,050.52	$1,581,625.96
Distilled spirits, domestic, excise tax	118,312,509.44	116,365,785.06
Distilled spirits, imported, excise tax	11,128,837.72	10,340,104.80
Gasoline	46,081,713.66	45,807,268.99
Lubricating oils	5,361,638.59	8,475,551.17
Matches	649,638.10	595,947.29
Narcotics, including marihuana and special taxes	41,949.67	47,823.30
Oleomargarin, including special taxes	2,285,011.04	1,051,153.50
Silver bullion sales or transfers, stamp tax	4,941.77	33,526.63
Sugar	6,938,444.82	8,907,086.25
Toilet preparations, excise tax	6,859,445.59	6,890,757.67
Transportation of oil by pipeline	1,815,089.51	1,135,133.37

Trade Briefs

Hilton-Davis Chemical Company, Cincinnati, Ohio, has added "Permanent Pigment Blue," green shade phthallocyanine blue, to its line of flushed colors for printing ink manufacturers.

Ray T. Crowell, president of the Rowe Paint & Varnish Company, Niagara Falls, N. Y., was the speaker at the recent meeting of the National Sales Executives of Eastern New York.

M. E. Coleman, educational director of the American Turpentine Farmers Association, was awarded the degree of "Honorary American Farmer" at the recent annual meeting of the Future Farmers of America.

St. Regis Paper Company has organized a new advanced engineering department, headed by Robert W. Barber, to be responsible for forward planning and development of new laminated plastics materials and products.

John C. Best, vice-president of the National Gypsum Company, Buffalo, N. Y., has been appointed chairman of the International Affairs Committee of the Buffalo Chamber of Commerce for the coming year.

Dr. Shingler to Retire From Naval Stores Post

Dr. George P. Shingler, former head of the naval stores station of the bureau of agricultural and industrial chemistry, Department of Agriculture, Olustee, Fla., will retire from government service on November 30.

Dr. Shingler joined the department's bureau of chemistry in 1923, and was named acting head of the Olustee naval stores station when it was opened in 1931. In 1935 he was named head of the station and served in that capacity until March of this year, when he was succeeded by Emmett P. Waite. Since then Dr. Shingler has been serving in an advisory capacity and completing a book entitled "Sixty-Nine Years of Naval Stores History."

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Paint Color, Container Recommendation Revised

Printed copies of simplified practice recommendation R144-49, "Paints, Varnishes, and Related Products (Colors and Containers)," are now available from the National Bureau of Standards. It will be effective from December 15, 1949, and supersedes the 1945 issue.

This recommendation lists a variety of oil paints, enamels, varnishes, water-thinned paints and related products, and for these items gives the recommended maximum number of colors and sizes of containers for each kind of material. Trade sales items only are included in the simplified list, industrial items being excepted. The new issue adds pint-size containers to those already provided for varnish stains, and oil, spirit, and penetrating stains. It also increases the number of colors for barn and roof paints from two to three, and the number of colors for texture paints in powder form from three to eight.

Copies of R144-49 are for sale by the Superintendent of Documents, Government Printing Office, Washington 25, D. C., for 5 cents.

Pitts. Paint Technicians Discuss Emulsion Paints

F. B. Stieg, assistant manager of the technical service laboratories of the titanium pigment division of National Lead Company, discussed emulsion paints at a meeting of the Pittsburgh Paint and Varnish Production Club on November 7.

Mr. Stieg first discussed flat emulsion paints of the continuous film forming type, and then led into the subject of gloss emulsion paints. The latter were considered with respect to pigmentation and vehicle composition, together with the use of protective colloids, emulsifying agents, and similar ingredients. A general formula was suggested and comparisons made with the orthodox type of gloss enamels with respect to color and color retention, gloss and gloss retention, hiding power, and flexibility.

Glidden Appoints Weeks Personnel Relations Head

The Glidden Company, Cleveland, has appointed John H. Weeks to the newly-created position of director of personnel relations. Mr. Weeks, who has been personnel director, will combine in his new capacity the offices of the personnel and industrial relations departments, and will be responsible for the direction and carrying out of personnel policies as they affect salaried as well as hourly employees. He has been with the company since 1934.

L.A. Paint Club Meets

Buron Fitts, former lieutenant governor of California, was the featured speaker at the recent meeting of the Los Angeles Paint, Varnish and Lacquer Association. Mr. Fitts made a plea for spiritual and military rearmament in an effort to prevent another world war.

Armstrong Develops New Thermosetting Resin Adhesive

Armstrong Products Company, Burket, Ind., is currently marketing a new thermosetting resin compound, known as "Armstrong's Adhesive A-1." The material, according to the maker, contains no volatile solvent and does not shrink or swell upon hardening. The entire composition, it is stated, sets up to a rigid solid and becomes the adhesive bond between the materials to which it is applied.

Celanese Patents Available

More than one thousand unexpired patents are listed by the Celanese Corporation of America in the November 15 *Official Gazette* of the United States Patent Office for "licensing on reasonable terms." Additional patents, it was reported, would be listed in the November 22 issue. The listed patents cover all sorts of things, from acetic anhydride to wrapping machines, including a great variety of plastic materials and synthetic fibers and various products thereof and related processes.

Inquiries concerning these patents should be addressed to the Celanese Corporation of America, 180 Madison avenue, New York 16.

Borden Honors Leicester

The Borden Company, New York, recently honored William F. Leicester, vice-president of its chemical division, on the occasion of his twenty-fifth anniversary with the company. Mr. Leicester joined the Casein Company of America division of the Borden Company in 1924 as sales manager, was named a vice-president in 1939, and was elected president in 1944. In 1946 he was made a vice-president of the Borden Company.

Trade Briefs

Tennessee Eastman Corporation has published a new booklet describing the eight plasticizers it is offering to the trade. Copies may be obtained from the company at Kingsport, Tenn.

Pratt & Lambert, Inc., paint and varnish manufacturer, Buffalo, N. Y., recently gave a party for employees and their wives and guests as part of the celebration of the company's 100th anniversary.

American Printing Ink Company, a division of Sun Chemical Corporation, Long Island City, N. Y., has issued a new edition of its "Glostone" specimen book, showing twenty-nine colors.

A. D. Duncan, vice-president of the Glidden Company, addressed the recent annual conference and products exhibit of the National Institute of Governmental Purchasing.

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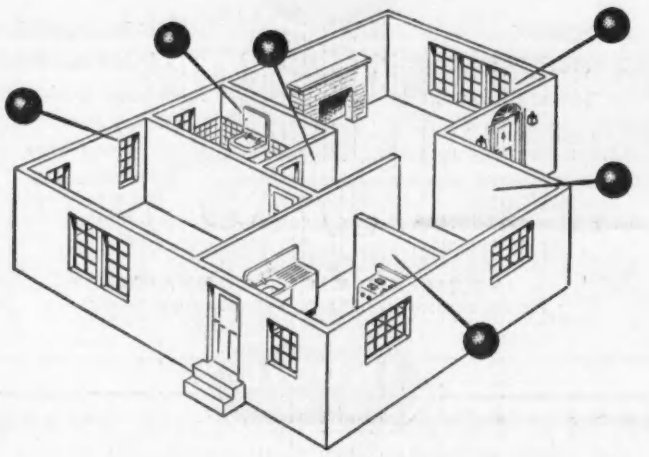

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INDOIL CHEMICAL PRODUCTS

Du Pont Has 'Teflon' In Suspensoid Form

Research workers of E. I. du Pont de Nemours & Co., Wilmington, Del., have developed a suspensoid form of its "Teflon" tetrafluoroethylene resin. Although the new form is not yet in commercial production, five new finished product developments have been evolved which are expected to have considerable industrial usage when sufficient suspensoid becomes available.

The finished products are:—Industrial finishes which may be applied with paint spraying equipment to metals; enamels for insulating fine wire which can be coated at a rate of about fifty feet a minute on standard wire coating machinery; compounds for extruding heavier insulation onto wire at rates upward of twenty feet a minute, in contrast with the present rate of six feet an hour; unsupported "Teflon" film of improved quality and in thinner gauges, and glass fabrics coated with "Teflon."

Chemical Wage Rate

—Continued from page 3

hour or less paid by 50 percent of the establishments, a rate of $1.05 would exclude 26 percent of the establishments employing 28 percent of the workers.

"In the miscellaneous chemicals and chemical products industry, with 70 percent of the workers concentrated in the Middle Atlantic and Great Lakes regions, a $1.05 minimum wage would exclude 64 percent of the establishments employing 50 percent of the workers.

Why Rates Vary

"The ten subdivisions of the chemical industry, although all properly within the general classification of chemical manufacturing, are vastly different as to type of worker, degree of skill required, raw materials and equipment used and in many other respects. Of necessity, rates paid vary widely.

"A 30 percent level is also high for application to all subdivisions of the industry. The minimum wage bracket appearing from BLS Table 12 for 30 percent of all the establishments in the country is between 90 cents and 95 cents. Since half the plants in the cleaning and polishing preparations industry pay minimum wages less than 83 cents, and half of those in the insecticide and fungicide industry pay less than 79 cents, the level of 95 cents for general application to the chemical industry, taken from the industry-wide 30 percent level, should certainly not be exceeded as the upper limit. The BLS survey further shows that any minimum wage to be determined for all subdivisions alike should maintain the current area differential."

Labor's Case Argued

The highest minimum wage recommendation came from the United Mine Workers Union. It recommended a minimum of $1.28 an hour for the industry generally on the grounds that a survey made last December of the minimum rates in its contracts it was found that the minimums averaged out to $1.21 an hour. Since that time there has been an increase of 7 cents an hour in renegotiated contracts.

Representatives of the Gas, Coke and Chemical Workers of America, and the International Chemical Workers Union (A.F.L.) recommended a minimum of $1.20 an hour on the grounds that the BLS survey shows that over 50 percent of the chemical industry workers receive minimum hourly rates in excess of this level.

Each of the labor representatives vigorously opposed any diffentials between the north and the south, arguing that there is no basis for the belief that workers in the south can achieve the same standard of living as the workers in the north at lesser rates of pay. They also emphasized that Congress refused to recognize the necessity for any differential in the recent increase in the minimum wage from 40 to 75 cents an hour in the fair labor standards act.

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	Color, Barrett	Softening Point, °F.	Iodine Number
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PANAREZ 3-210	7	200-220	180 min.
PANAREZ 6-210	3	200-220	175 min.

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Oils, Fats and Waxes

Feature of the oils and fats market last week was government purchases of soybean oil, which had a strengthening influence on edible oils which were weak. Outside of government activity, trading was restricted and spasmodic. Price index was slightly higher at 107.7, compared with 193.5 at this time last year.

Soybean oil was firmer due to government demand and fractional losses were regained, the market closing unchanged and strong. This strength was reflected in crude cottonseed oil and also bleachable cottonseed oil futures resulting in a firmer tone. Corn and peanut oils remained easy and declined fractionally. Business was active in the latter at the lower levels, while interest in corn oil lagged.

Coconut oil and copra continued to reflect the scarcity of offers from Philippines due to recent typhoon damage to the coconut groves. Crude coconut oil was lifted ¾ cent per pound and copra $5 per ton.

Tallow and grease remained firm, though trading was reported spotty. Production of fancy tallow was sold ahead and offerings were scarce. Sales for export commanded premiums of 1½ cents above the best bids from domestic buyers. Export inquiry was fairly active, but trading was restricted by the prevailing high prices. Domestic users absorbed some of the lower grades at unchanged quotations. Inquiry for greases was slow, but the market was unchanged reflecting the firmness in tallow.

Tung oil continued to advance fractionally. Offers for nearby delivery were limited and light sales took place at ¼ cent higher. Oil for December delivery also was tighter and generally maintained at the same level as November. This strength was reflected in dehydrated castor and oiticica oils, while linseed oil was unsettled and asking prices could have been shaded for tankcar business either for prompt or forward delivery.

Market Trends

Prices Advanced

Coconut oil, ¾c. per lb.
Copra, $5 per ton.
Cottonseed oil, ¼c. per lb.
Soybean oil, ⅛c. per lb.
Tung oil, ¼c. per lb.

Prices Reduced

Corn oil, ¼c. per lb.
Peanut oil, ¼c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
107.7	107.4	110.7	193.5

(For Current Prices see Page 9)

Cottonseed Oil

Trend of bleachable cottonseed oil futures continued downward last week. The market was under liberal hedge selling which caught stop loss orders and established new season's lows for July forward. Midweek, the market was firmer, scoring moderate gains as a result of government purchases of soybean oil, but the advance was not sustained. The open interest in cottonseed oil futures continued to gain, totaling 2,841 contracts, a new postwar high.

Crude cottonseed oil was firmer at the close and regained early loss of ¼c. per pound. Sales were reported at 9⅜c. per pound, tankcars, f.o.b. mills, November-December shipment, in the Southeast and Valley, and at 9⅛c., Texas mills.

Reports from Texas stated that many mills in the western part of the state have accepted the terms of the cottonseed support program to store or crush cottonseed for government account.

Sales and prices of refined bleachable prime summer yellow cottonseed oil in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended November 18 follow:—

	Sales	Cents per pound High	Low	Close
December	230	11.93	11.45	11.83@11.87
January				11.85N
March	389	11.88	11.45	11.84S
May	333	11.78	11.42	11.82—11.84S
July	256	11.84	11.46	11.80@11.85
September	95	11.55	11.22	11.58@11.59
October	5	11.25	11.00	11.30@11.40

Total sales, 1,308 tankcars, including switches.

Memphis—Crude cottonseed and soybean oils trading at 9¼c. per pound, tankcars, f.o.b. mills, for nearby delivery. Cottonseed meal trend was upward under improved domestic demand and reduced selling pressure. Meal, 41 percent, quoted at $60 per ton, Memphis. Cottonseed cake held at $55 per ton, Mississippi points, and $62, f.a.s. New Orleans, for November-December. Cottonseed hulls in better demand, quoted at $5 to $6 per ton, bulk, mills, Valley. Fair weather prevailing, and picking of balance of crop rapid.

Linseed Oil

While new business was inactive, a marked improvement was reported in the call for oil against former contracts last week. Prices were quotably unchanged, but keen competition has unsettled the market for sizable quantities and firm bids could have shaded open quotations for carlot business. Carlots were quoted at 17.30c. per pound, tankcars, Zone 3, November-June delivery.

Minneapolis—Scattered replacement orders and a few tankcars made up most of the business with local crushers during the week. The trade is shopping the oil market thoroughly and holding off because of the weakness in other oils. The price of raw oil at Minneapolis, November-June shipment, in tanks for zone 1, was 16.7c. per pound. Scattered sales were reported in zone 1 as low as 16.5c. per pound, and according to rumors the eastern market in zone 3 was at a bargain rate as crushers competed for business. While the unsettled price situation discouraged new business there was nothing wrong with shipping instructions and buyers ordered out their purchases in good volume. Mills were operating at capacity and oil was moving to consumers at a good rate every day.

Shipments of linseed oil, in pounds, were as follows:—

	1949-50	1948-49
This week	9,360,000	6,600,000
Since Sept. 1	120,500,000	89,020,000

Flaxseed—Trading was fairly active at the support price for prompt and forward delivery.

Minneapolis—Demand for cash flaxseed broadened at midweek and spot and to arrive prices advanced to the loan level of $3.99 a bushel. One or two crushers were quite aggressive for seed and paid the full market for a day or two, accumulating some good-sized stocks in the process. Demand slowed after the first buying rush and while it was still possible to get $3.99 for selected seed from northern stations there was some quibbling about seed that did not show top quality. Flaxseed for delivery after January 1, 1950, sold readily at $3.99 with virtually all of the crushers in the market for supplies. Some of the local crushers liquidated spot holdings and repurchased seed for delivery later in the season, after January 1. Currently it appears as if demand after the turn of the year will be good and that prices will hold firm to strong.

Shipments of flaxseed, in bushels, were as follows:—

Bushels—	Receipts 1949-50	Receipts 1948-49	Shipments 1949-50	Shipments 1948-49
This week	276,600	336,600	40,800	302,000
Since Sept. 1	11,432,300	26,614,300	913,000	5,289,400

Other Vegetable Oils

Coconut—Stronger copra market further stiffened the oil market and crude was lifted ¾c. to 14¼c. per pound, tankcars, f.o.b. Pacific coast, for immediate shipment, and November-December 14c. January forward was 13¾c.

Copra—Offers for shipment were firmer and advanced to $185 per short ton, c.i.f. Pacific coast, following sales at $180.

Corn—Lower competing oils weakened this market and crude oil was off ¼c. Trading was light at 9⅝c. per pound, tankcars, f.o.b. mills. Refined oil also was lower at 13c., tankcars, New York delivery.

Olive—Increased offers of new crop oil for December forward shipment unsettled the market, though prices for spot stocks were unchanged and more or less nominal. Trading was slow. Spanish oil ranged from $2.70 to $2.80 per gallon, drums, duty paid on spot, and Moroccan at 10c. less. Olive foots were quoted from 13½c., drums, for carlots, and up to 15c. for smaller quantities.

Soybean—Government buying served to stiffen this market last week. Crude oil was reported sold from 9⅛c. to 9½c. per pound, tankcars, f.o.b. mills, November shipment. Sales for December took place at 9¼c.; January-March, 9⅛c., and April-June, 9c. Refined edible oil remained steady at 12¼c. per pound, tankcars, New York delivery.

Sales and prices of prime crude soybean oil on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended November 18 follow:—

	Sales	Cents per pound High	Low	Close
December	2	9.29	9.25	9.25@ 9.40
January	..	...	...	9.10@ 9.35
February	..	...	...	9.10N
March	10	8.95	8.60	8.90@ 9.09
April	..	...	...	9.00N
May	14	8.80	8.65	8.80@ 8.87
June	..	...	...	8.80N
July	13	8.75	8.50	8.70@ 8.80
August	..	...	...	8.75N
September	10	8.50	8.40	8.55@ 8.75
October	1	8.55	8.55	8.45@ 8.65
November	..	...	...	8.60N

Total sales, 50 tankcars.

Peanut—Crude oil was easier and sales were reported down to 10¼c. per pound, tankcars, f.o.b. mills, for prompt shipment. December forward quoted at 9⅞c. to 10c. Refined oil was nominal at 13¼c.

For Late Market Developments, See Page 4

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per pound, tankcars, New York delivery. The government released peanuts in the Southeast for about 125 tankcars.

Tung—Scarcity of offerings for nearby delivery further strengthened this market and light sales of imported oil were reported at 26c. per pound, tankcars, New York basis, up ¼c. for the week. December delivery also was firmer and held at 25¾c., same basis, and January at 25½c. Domestic oil production for November-December was reported sold up, and January-February was quoted at 25¼c., tankcars, f.o.b. southern mills. Imports totaled 551 tons and 54 drums at New York from the Argentine last week.

Fats and Greases

Greases—Export inquiry was fair and centered in choice white, which was held at 8¼c. per pound, drums, f.a.s. Interest in lower grades was slow. Domestic buyers purchased yellow grease at 5c. per pound, loose, delivered. Other grades were unchanged and steady.

Lard—This market was quiet and more or less nominal. Cash lard was quoted at 9.65c. per pound, tierces, Chicago. Export business was light and reported at 12¼c. per pound, packages, f.a.s., spot shipment. The government requested bids for 6,600,000 pounds of lard for shipment to Austria. Bids will close November 23. Lard stocks totaled 14,402,180 pounds in Chicago, November 15, against 18,282,250 pounds, November 1 and 25,295,780 pounds, November 15, last year. Offers were noted at 12c. for end November shipment.

Tallow—This market continued firm. Export inquiry was fairly active, with business moderate. Offers of fancy were scarce and sales were reported at 8c. per pound, drums, f.a.s. for export. Domestic demand was spotty, with lower grades moving at former quotations.

Animal Oils

Neatsfoot Oil—Moderate trading was noted for all grades. Quotations were unchanged and well held.

Oleo Oil—Limited stocks were firmly held for spot delivery. Market was more or less nominal at 15½c. per pound, trieces, New York delivery.

Oleo Stearine—Business was confined to actual needs. Prices ranged from 9½c. to 10c. per pound, barrels, New York delivery.

Fish Oils

Cod—Trading was fairly active for forward delivery. Tanked oil was offered at 8¼c. per pound, drums, ex-dock, New York. Spot stocks ranged from 9c. to 9½c. per pound, drums, according to quantity.

Fish—Refined oil was in fair demand for actual requirements. Prices were unchanged. Crude menhaden oil was nominal at 5½c. per pound, tankcars, Baltimore and 5c. Gulf ports. Unconfirmed reports stated that light sales took place at 5c., North Carolina points, if and when made. Limited stocks of crude sardine oil were held at 6c. per pound, tankcars, f.o.b. Pacific coast.

Los Angeles.—The local fish oil market has been unsettled this week with no definite quotations available at present for sardine oil. Early in the week there was movement of about five cars of sardine oil from San Pedro at 6c. per pound. Following this, the spread between buyers and sellers was too wide to permit agreement, sellers refusing 6c. bids and buyers not considering 6.5c. per pound. No movement of tuna oil has been reported for several days with the oil very scarce and quoted at 4.75c. per pound. No tuna boats have left the harbor since September 7 and those already out have returned with little or no fishing activity reported. Pilchard fishing appears definitely halted for the current season. In the Los Angeles Harbor area, dispute over an asserted 5 percent deal by canners in buying sardines has tied up the entire fishing fleet. Members of the Fishermen's Union, who deal with boat owners, have charged that canners have been exacting a 5 percent reduction on the price of fish and that boat owners have in turn been withholding the 5 percent from working fishermen. Price of fish at the beginning of this season was cut to $32.50 per ton from a previous high figure of better than $60 per ton. Canners' representatives are pointing out that the price of packed sardines has dropped from $6 to $3.25 per case and that consumer demands should determine the price of fish. Total pilchard landings for San Francisco, Monterey and San Pedro through November 14 totalled 199,362 tons compared to 69,887 tons for the same period last year.

Seal—Shipments from Newfoundland were quoted at 13c. per pound, drums c.i.f. New York. Buying interest was quiet.

Sperm—Consuming inquiry was inactive. Bleached winter, 45 degrees was quoted at 15.20c. per pound, tankcars and natural winter 45 degrees, 14c. per pound, tankcars, New York.

Cake and Meal

Cottonseed Meal—Exporters have been the heaviest buyers in the cake and meal market for the last several weeks. The actual market is holding about steady at $55 per ton for loose slab cake, basis Mississippi Valley points, November shipment. Bids of $54 would not buy November or December. Cottonseed meal 41 percent sacked was quoted at $60 per ton Memphis, November-December and $59.50 basis West Tennessee, January, February, March. Supplies of cottonseed meal in the southeastern states continue to be scarce with only scattered offerings. Sacked cottonseed meal 41 percent was quoted at $62 to $63 basis Georgia and $64 to $65 basis South Carolina mill points, November-December shipment. Very few mills will offer future deliveries.

Linseed Meal—This market continued firmer and advanced $2 per ton. Supplies for prompt delivery were light and in good demand.

Minneapolis.—A shortage of spot meal as well as very light offerings of meal for November-December shipment caused prices to advance in the local market. Meal 34 percent, was up to $66 per ton, bulk, f.o.b. Minneapolis with another advance expected while 36 percent was up to $65 per ton for November-December and a dollar a ton discount each month January through March. Shipping instructions on maturing contracts were good and meal shipments continued at a high level.

Shipments of linseed meal, in pounds, were as follows:—

	1949-50	1948-49
This week	17,760,000	11,340,000
Since Sept. 1	220,430,000	182,580,000

Peanut Meal—Last week enough peanuts were released by the government to produce approximately 6,000 tons of peanut meal which is a reduction from the previous week's release. Exporters continue to buy about all the surplus, and market continues about steady. Old process peanut meal 45 percent was quoted at $58 to $59 per ton, basis South Georgia and South Alabama mill points, November, December, January shipment.

Soybean Meal—This market has been fairly weak for November shipment, but futures have been holding steady. Sacked 44 percent soybean meal was held at $62.50 per ton, Mississippi and West Tennessee mill points, November shipment with December commanding about $1 premium. Forty-one percent or 44 percent meal was quoted at $58.50 bulk Decatur, prompt November shipment, $60 December and $61 January forward.

Waxes

Beeswax—Firmness in crude wax kept the market in a steady position, despite limited trading. Offerings were light and well held. Refined was in fair request for immediate needs. Quotations were without change.

Candelilla—Moderate buying was noted for crude and refined grades. Prices were unchanged and steady.

Carnauba—Offers for shipment from Brazil were firmly held at the floor levels. This was reflected in the spot market and prices were maintained at former levels.

Margarin Output: Sept.

Margarin production totaled 74,407,878 pounds in September, compared with 79,106,293 pounds in August, and 80,433,313 pounds in September last year, according to the Bureau of Internal Revenue.

	Pounds—September 1949	1948
Production of uncolored oleomargarin	56,967,834	71,071,081
Withdrawn tax-paid	55,648,782	68,163,566
Used in Uncolored Margarin		
Butter flavor	6,435	1,576
Coconut oil		51,905
Corn oil	27,027	32,572
Cottonseed oil	24,478,595	35,771,204
Derivative of glycerin	94,735	119,831
Diacetyl	188	377
Lecithin	108,191	105,379
Milk	9,537,525	11,849,241
Monostearin	44,468	63,617
Neutral lard	254,817	276,942
Oleo oil	217,914	228,892
Oleo stearin	275,266	305,014
Oleo stock	49,410	36,245
Peanut oil	642	385,633
Salt	1,715,556	2,174,434
Soda, benzoate of	44,408	51,408
Sodium sulpho acetate		5,225
Soybean flakes	865	285
Soybean oil	20,977,032	20,534,408
Vitamin concentrate	9,315	10,515
Total	57,842,409	72,006,753
Production of colored oleomargarin	17,440,044	9,362,252
Withdrawn tax-paid	15,523,237	7,693,585
Used in Colored Margarin		
Butter flavor	3,313	256
Coconut oil		248,440
Color	9,561	7,578
Corn oil	75	4,204
Cottonseed oil	7,597,820	3,706,904
Derivative of glycerin	23,985	16,893
Diacetyl	45	33
Lecithin	33,734	13,430
Milk	2,949,894	1,647,483
Monostearin	13,003	4,347
Neutral lard	13,920	16,074
Oleo oil	20,986	11,886
Oleo stock	7,650	2,100
Peanut oil	183	11,598
Salt	542,377	289,546
Soda, benzoate of	12,834	5,067
Soybean oil	6,763,935	3,486,322
Soybean flakes		3,870
Vitamin concentrate	2,817	1,273
Total	17,996,342	9,477,304

Crude, No. 3, was quoted at 83c. to 84c. and refined at 87c. to 88c. per pound, as to quantity, on spot; yellow, No. 1 ranged from $1.11 to $1.13 and No. 2, $1.09 to $1.11 per pound, same basis.

Ouricury—Stocks on the spot were held at 75c. to 76c. per pound, according to quantity.

Warwick Names Distributors

Warwick Wax Company, a subsidiary of the Sun Chemical Corporation, Long Island City, N. Y., has appointed the E. S. Browning Company, a division of Innis, Speiden & Co., distributor of its "Mekon" microcrystalline waxes, "Cardis" emulsifiable waxes and sugarcane wax in California, Oregon and Washington. Stocks will be maintained in Los Angeles and San Francisco. The Warwick organization has also named the L. C. Morris Company distributor for the waxes in Georgia, Florida, Alabama and Mississippi. The Morris firm has its headquarters in Atlanta.

Soap Sales Increased In January-September

Nonliquid soap sales for the first nine months of 1949 were reported at 1,947,993,000 pounds, as compared with 1,944,103,000 pounds in the corresponding period of 1948, according to Roy W. Peet, manager of the Association of American Soap & Glycerine Producers. The number of companies reporting increased from sixty last year to ninety-two this year.

Liquid soap sales increased from 2,383,000 gallons in 1948 to 5,717,000 gallons this year, with the number of companies reporting up from thirty-eight to fifty-nine. Synthetic detergents sales were also up from 281,488,000 pounds in the first nine months of 1948 to 514,289,000 pounds in the corresponding period this year, with the number of companies reporting up from fifteen to thirty-five.

Trade Briefs

Kraft Foods Company, Chicago, has appointed John B. McLaughlin advertising and sales promotion manager.

International Nickel Company has received patents on a new cast iron, which, unlike ordinary cast iron, is not brittle

Whale Oil Company, Brooklyn, N. Y., has been named distributor for the Kendall Refining Company in New York, Westchester, Nassau and Suffolk counties.

Archer-Daniels-Midland Company recently held a dinner at the Buffalo Athletic Club, Buffalo, N. Y., to honor fourteen employees with twenty-five or more years of service.

Victor Acer, vice-president of Spencer Kellogg & Sons, Inc., Buffalo, N. Y., has been appointed to the manufacturing committee of the Buffalo Chamber of Commerce.

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2—Buhrstone Lined Pebble Mills, 4'x5' and 6'x5'

2—Patterson Chrome Manganese Lined Ball Mills; both Jacketed sizes, 5'x6' and 5'x16'

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—Continued from page 4

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1—Glasco 1000 gallon glass-lined Reactor (new).
1—Patterson 5000 gallon Turbo-Type Kettle (new).
8—Louisville Rotary Steam Tube Dryers, 6' x 50'.
5—Simpson Intensive Mixers #0 (new).
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1—Sparkler Filter-15-D-S.

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Essential Oils

—Continued from page 65

producing country. Unrest in the Malay states, however, still operates against a normal cultivation of the plants and consequently a lack of normal stocks there was expected to continue. Some importers on spot declared that, at present, it is almost impossible to calculate on the probable trend of prices in the future. Spot stocks were declared to be conservative in size and the moderate supplies still available at the origins were to be had only at prices so high as to make prospective buyers hesitate in placing orders.

Pennyroyal—Information in hand last week indicated that Spain underwent a complete crop failure in this oil. Consequently, sellers have become reserved in making further proposals to consumers and have a tendency to restrict sales from the not substantial stocks still available here.

Peppermint—The higher prices developed in the primary market in recent weeks, and which were duly reflected in most local quarters, made for a very firm situation everywhere last week. Though stocks were believed to be adequate, firsthands in the country showed no signs in weakening their price views. On the contrary, they seemed disposed to strengthen them steadily. Demand was about normal in its jobbing aspects on spot last week, a fact that tended to confine competition within limits. Prices at the close of last week were higher again. Natural oil ranged $5.15 to $6 per pound and redistilled became $5.45 to $6.30.

Sage—With the exception of Spanish oil, all varieties of this material were objects of strength that seemed based on moderate spot stocks and higher costs than prevailed abroad. Demand has also been a supporting item, food processors being in the market for their seasonal requirements.

Sandalwood—Local offerings last week included goods due to arrive. Such oil was priced in one direction as low as $10 per pound. Goods actually on spot were minimum at $12.25 per pound, a 25c. advance over the minimum quoted in the previous week. According to seller, quantity, and quality, quotations ranged to $16.30 per pound.

Spearmint — Most suppliers declared that stocks were ample. Plenty of unsold oil was said to be available on spot and at the origin. Demand remained repressed to actual need last week, but quotations remained on the basis of $3.10 to $4.10 per pound.

Thyme—Consumption was said to be moderately satisfactory and sufficient in volume to make for exceptionally steady spot quotations. Stocks in all directions were substantial enough to eliminate the idea of any early development of spot shortage.

Ylang Ylang — It may surprise some that the John Lewis coal strike was felt in Madagascar, from whence comes much of the ylang ylang oil consumed in this country. The island gets its coal from the United States, and the strike tie-up of exports was sufficient to "frighten" the Madagascarians. Just what the connection is with the current shortage of good quality Bourbon oil on spot was difficult to discern, but the fact has been that devaluation of the colonial French franc did not bring any lowering of the cost of such oil to local importers. In fact, the prices there have been advancing steadily and seem destined so to continue. Naturally, the spot position has become one of substantial strength and most dealers have advanced selling prices materially.

Aromatic Chemicals

Anethol—Producers of this article appeared to expect an advance in prices. Production costs have risen and buyers of late have shown a disposition to stock up against a possible shortage if the supply situation remains in its present jeopardy. Though still quoted at 77c. per pound in drums, the idea of an 85c. market in the not distant future was prominent.

Cinnamic Alcohol—The price range was slightly narrower and the market in general was quoted $2.75 to $2.95 per pound.

Citral—Information suggested a probable advance in prices. Quotations ranged $2.60 to $4.85 per pound last week, but the supply was tighter and replacement costs tended up.

Citronellol—This was another article in which there was talk of a probable rise in quotations because of the stronger situation with respect to the cost to replace current stocks.

Geraniol—The tendency was to raise prices in order to reflect more adequately the higher cost to replace the local stocks of this article; and the stocks were conservative.

Ionones—Talk of coming advances was encountered often last week, and while quotations were not changed last week, they were substantially firmer in all quarters supplying the item.

Syntomatic Names Breuer

Syntomatic Corporation, New York, has appointed H. O. Breuer representative for Mexico and Central America. He will represent the company for the sales of perfume oils, essential oils and aromatic chemicals for all fields in which the materials are used, and will handle sales of flavoring materials to the food, confectionery and beverage fields. Mr. Breuer will make his headquarters at Fernando De Croix 150, Lomas De Chapultepec, Mexico, D. F.

Aromatics Course Speakers Scheduled by N.Y. University

The guest speaker at the November 28 session of the aromatic course being conducted at New York University will be Herbert Sommer, perfumer of Prince Matchabelli, Inc., who will discuss the "Daily Problems of the Perfumer." On December 5 Denis Duveen, president of F. Reinits Soap Corporation, will speak on "Perfumery in the Period Between 1450-1650," and on December 19 Julian A. Bellot, perfumer of J. A. Bellot Company, will discuss "The Perfumer's Creative Art."